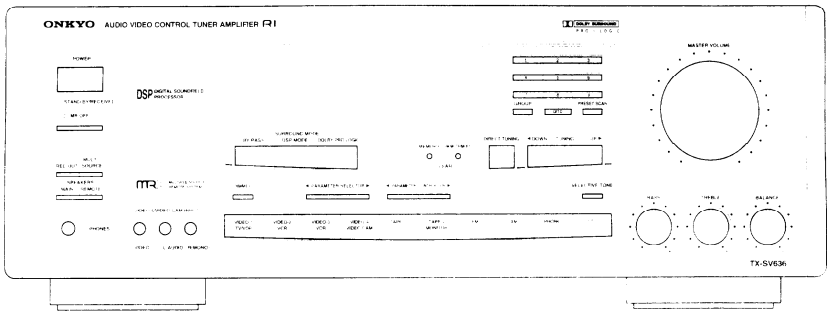
ONKYO

TX-SV636

Audio Video Control Tuner Amplifier

Instruction Manual



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Thank you for purchasing the Onkyo A/V Tuner Amplifier.
Please read this manual thoroughly before making connections and turning on the power.
Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new A/V Tuner Amplifier.
Please retain this manual for future reference.

Features

- **100 Watts per channel into 8 ohms (stereo)**
- **85 Watts to left/center/right plus 30 watts to left/right surround**
- **Full digital Dolby* Pro Logic and 4 dramatic digital surround modes**
- **Powerful, precise, latest-generation 24-Bit Motorola DSP circuitry**
- **High current, low-impedance drive plus discrete output stage circuitry and heavy-duty power supplies provide effortless performance**
- **Intelligent Power Management (IPM) starts up entire AV system with TV power button**
- **Multiroom and multisource capability**
- **New easier-to-use on-screen displays**
- **New standup programmed universal RI remote control that's easy to use**

*Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", the double-D symbol DD, and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

FOR U.S.A. MODEL

Note to CATV system installer:

- This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

FCC Information for User

CAUTION:

Changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate ratio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between other equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which other receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FOR CANADIAN MODEL
POUR LE MODELE CANADIEN

- For models having a power cord with a polarized plug.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

- THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSION FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.

- Sur les modèles dont la fiche est polarisée.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

- L'INTERFÉRENCE RADIO ÉLECTRIQUE GÉNÉRÉE PAR CET APPAREIL NUMÉRIQUE DE TYPE B NE DÉPASSE PAS LES LIMITES ÉNONCÉES DANS LE RÈGLEMENT SUR LES PERTURBATIONS RADIO ÉLECTRIQUES, SECTION APPAREIL NUMÉRIQUE, DU MINISTÈRE DES COMMUNICATIONS.

Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in order to charge the back-up system.
The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate.

Important Safeguards

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Water and Moisture** – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. **Carts and Stands** – The appliance should be used only with a cart or stand that is recommended by the manufacturer.

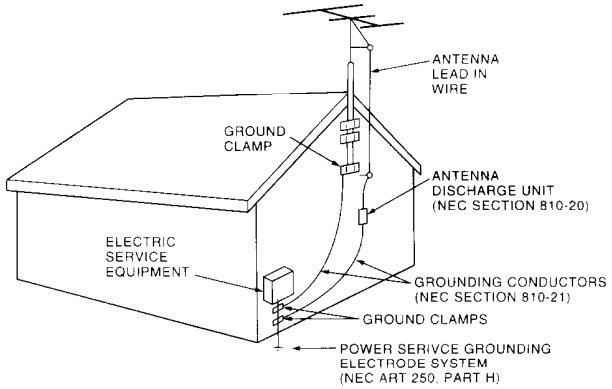
PORTABLE CART WARNING

S3125A

6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or if placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings, there should be free space of at least 20 cm (8 in.) and open up behind the appliance.
9. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Polarization** – If the appliance is provided with a polarized plug having one blade wider than the other, please read the following information:
    The polarization of the plug is a safety feature. The polarized plug will only fit the outlet one way. If the plug does not fit fully into the outlet, try reversing it. If there is still trouble, the user should seek the services of a qualified electrician. Under no circumstances should the user attempt to defeat the polarization of the plug.
12. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, especially near plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Cleaning** – The appliance should be cleaned only as recommended by the manufacturer.
14. **Power Lines** – An outdoor antenna should be located away from power lines.
15. **Nonuse Periods** – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:
    A. The power-supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
19. **Outdoor Antenna Grounding** – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 1.

FIGURE 1:
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERIVCE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC – NATIONAL ELECTRICAL CODE

S2898A

ATTENTION FOR BRITISH MODEL

- Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.
- IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:
  Blue : Neutral
  Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

FOR EUROPEAN MODEL

Declaration of Conformity

We, ONKYO EUROPE
ELECTRONICS GMBH
INDUSTRIESTRASSE 18/20
82110 GERMERING,
GERMANY

CE

declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN55013, EN55020, EN60555-2, -3 and EN60065

GERMERING,GERMANY

H. YAMAZOE

ONKYO EUROPE ELECTRONICS GMBH

Precautions

1. Warranty Card

The serial number is written on the rear panel of this unit. Copy the serial number and model number onto your warranty card and keep it in a safe place.

2. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

3. AC Fuse

The fuse is located inside the chassis and is not user-serviceable. If power does not come on, contact your Onkyo authorized service station.

4. Care

From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

5. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

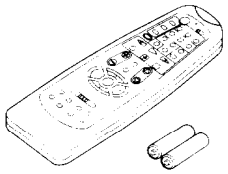
- Some models are designed for use only with the power supply voltage of the region where they are sold.

European and Australian models:	AC 230V, 50Hz
U.S.A. and Canadian models:	AC 120V, 60Hz
Worldwide model:	AC 220-230V/120V switchable, 50/60Hz

- **Voltage Selector (Rear Panel)**
  Worldwide models are equipped with a voltage selector to conform to local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit. Models without a voltage selector can only be used in areas where the power supply is the same as that of the unit.

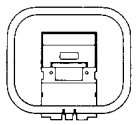
Turning off the power switch does not shut off the power completely. So the power cord should be removed from AC outlet when not in use for a prolonged time.

Supplied accessories

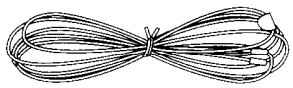


1 Remote controller
2 Batteries (size AA, R6, or UM-3)

1 Remote control cable

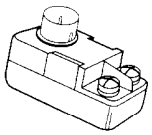


1 AM loop antenna

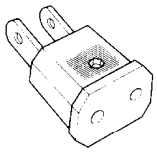


1 T-shaped FM antenna

The following accessories are only available for worldwide models.

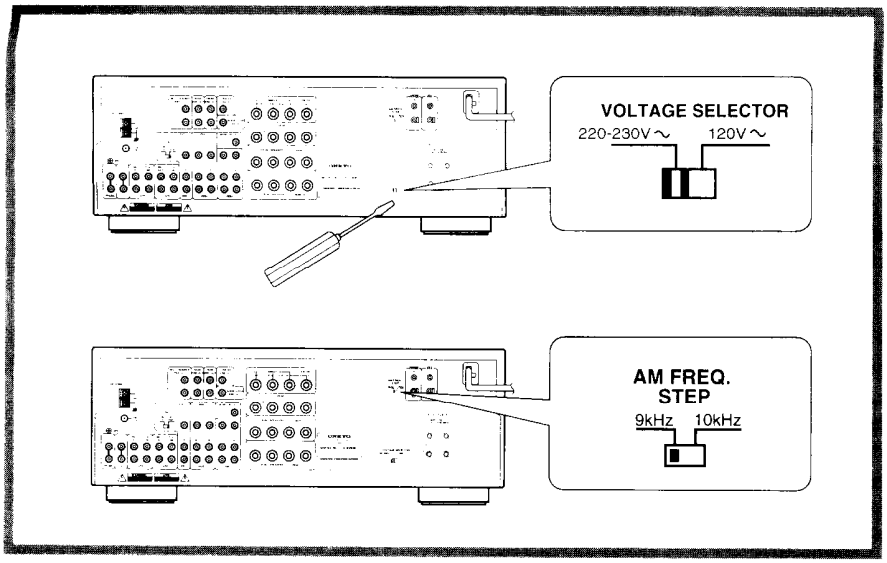


1 75/300 ohm antenna adaptor



1 CV plug (Shape may vary according to the area where purchased.)

Setting the voltage selector and tuning step frequency (Worldwide models only)



Voltage selector

1. Determine the proper voltage for your area: 220-230V or 120V.
2. If the preset voltage is not correct for your area, insert a screwdriver into the groove in the switch. Slide the switch all the way to the right (120V) or to the left (220-230V), whichever is appropriate.

AM tuning step frequency

Worldwide models are equipped with a switch that controls the AM band tuning steps. Please set this switch to match the AM band tuning step frequency in your area.

U.S.A. and Canada : 10kHz
Other areas : 9kHz

Explanation

Surround System

DOLBY PRO LOGIC Surround

Many motion pictures produced have been released in the 4-channel "Dolby Stereo" sound, with music, dialogue, and panned effects coming from the 3-channel front soundstage, and surround effects and ambience emanating from the sides and rear of the theater.

The motion picture masters are used for production of stereo VHS, VHS-Hi-Fi, Beta Hi-Fi, and stereo laser discs that you can buy or rent at your video store. The TX-SV636 incorporates the Digital Dolby Pro Logic Surround Circuit, which is designed to decode the four channel the audience experience found in DOLBY STEREO movies. Dolby Pro Logic Surround is capable of creating a multi-dimensional soundstage, but with the increased channel separation it gives a far greater sense of "movement" and sound localization. Just like in the theater, the addition of the active center channel ensures that all audience members hear dialogue coming from its on-screen sources regardless of seating position.

THEATER Surround

There are many surround speakers in an actual theater. The THEATER Surround mode used Dolby Pro Logic Surround decoding, followed by additional audio processing designed by ONKYO. Use this mode for creating a theater atmosphere. This mode is suitable for playback of media recorded in the Dolby Surround format.

HALL Surround

This mode is especially suitable for media already having a substantial amount of reverb sound such as classical music. The atmosphere of a concert hall can be simulated.

LIVE Surround

Reproduces the feeling of a live performance.

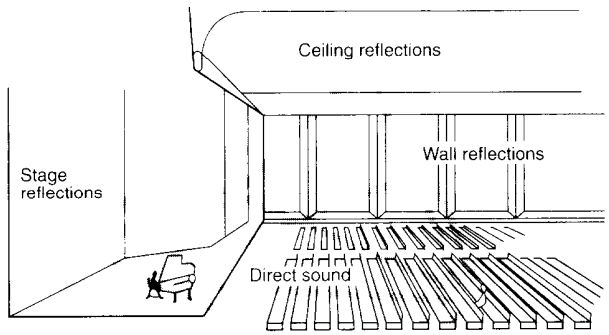
ARENA Surround

This mode recreates the feel of listening to a pop concert in a domed stadium.

Since the TX-SV636 is equipped with Front amplifiers, Center amplifier and Surround amplifiers, Dolby Pro Logic, Theater, Hall, Live and Arena Surround effects can be produced. You can enjoy the feeling of a movie theater, concert hall or ball game ground in your own room.

DSP (Digital Signal Processor)

The DSP converts the musical signal into digital form and produces reflected sound from the digital signal. This is applied to the musical signal to yield an effect approaching that of a live performance.



Wall reflections

NOTES:

- The concert hall effect is produced from the reflections and reverberations contained in the original recording. These are converted into reflected sound that is reproduced from four directions. Thus, in some cases an unnatural impression can be conveyed if there are too few reflections in the recording or if the effects in the original recording were produced artificially.
- The concert hall effect is not merely an artificial reverberation unit, but a sophisticated effect that spreads existing reverberation around.

Multiple Room Remote System (MR)

Xantech's Multi-Room System is available in the U.S. and Canada, while Onkyo's Multi-Room System is available in all other countries. (Refer to pages 18 and 19 for ditails.)

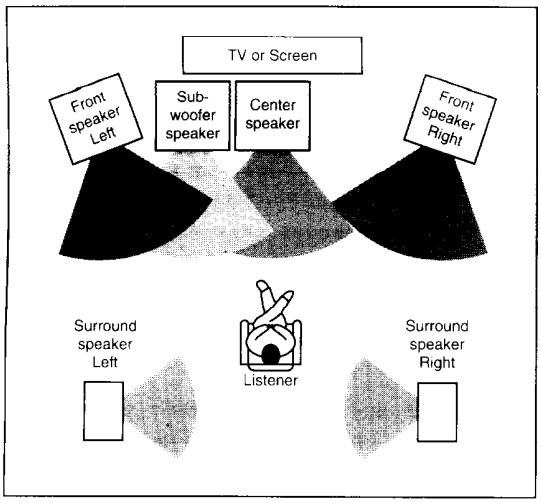
U.S.A. and Canadian models

- The following equipment (manufactured by Xantech and sold separately) is essential for using the Multi-Room System:
  * Dinky Link: Model No. 480B-009 or
    J-Box Receiver: Model No. 780-10
  * Connecting Block: Model No. 789-40
  * 120V AC Power Supply: Model No. 781C-00
- The following accessory is necessary for operation of components not manufactured by Onkyo:
  * Mini-Emitter: Model No. 282-00
- Use the secondary remote control model indicated below for operation of the system from the sub-room.
  * Secondary Remote Control For Multi-Room Remote System: Model No. RC-MR1H
- Consult your nearest Onkyo Service Center with any questions concerning Xantech's Multi-Room System.

Models other than U.S.A. and Canadian models

- The following equipment (manufactured by Onkyo and sold separately) is essential for using the Multi-Room System:
  * Sensor Unit: Model No. HR-10
- The following accessories are necessary for operation of components not manufactured by Onkyo:
  * Remote Emitter: Model No. HE-50 (AC)
  * Remote Emitter Head: Model No. HE-10
- Use the secondary remote control model indicated below for operation of the system from the sub-room.
  * Secondary Remote Control For Multi-Room Remote System: Model No. RC-MR1H
- Consult your nearest Onkyo Service Center when replacing your Onkyo Multi-Room Sytem with a Xantech Multi-Room System.

Speaker placement



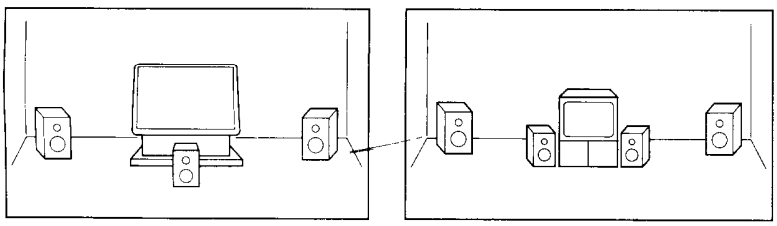
Placing the speakers for Surround effects

Speaker placement plays an important role in the reproduction of sound using Surround. The manner in which the speakers are placed varies depending on the size of the room and the wall coverings used in the room. The following shows an example of a layout for standard speaker placement. Refer to the example for placing the speakers appropriately in order to experience the best Surround sound.

In principle, for Surround sound reproduction, two Front speakers and two Surround (Rear) speakers are required. Refer to the illustration on the left.

Placing the front speakers

If the Front left and right speakers are placed too far away from each other, sound spreads out too much and is dispersed resulting in diminished sound quality.



Use one Center speaker

Use two Center speakers

Placing the center speaker(s)

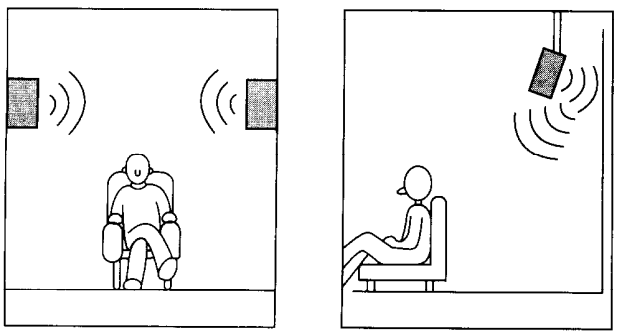
To enjoy Surround sound, a Center speaker is required in addition to the four basic speakers.

When one Center speaker is used:

If a screen with a projector is used, place the Center speaker under the screen. If a Monitor TV is used, it is recommended that the Center speaker be placed on top of or under the Monitor.

When two Center speakers are used:

Place the Center speakers on the left and right sides of the monitor TV as close as possible to the screen, facing slightly inward. They can be placed on top and under the TV. Please use magnetic-proof type speakers, otherwise the speakers might cause uneven colors on the screen of the monitor TV.



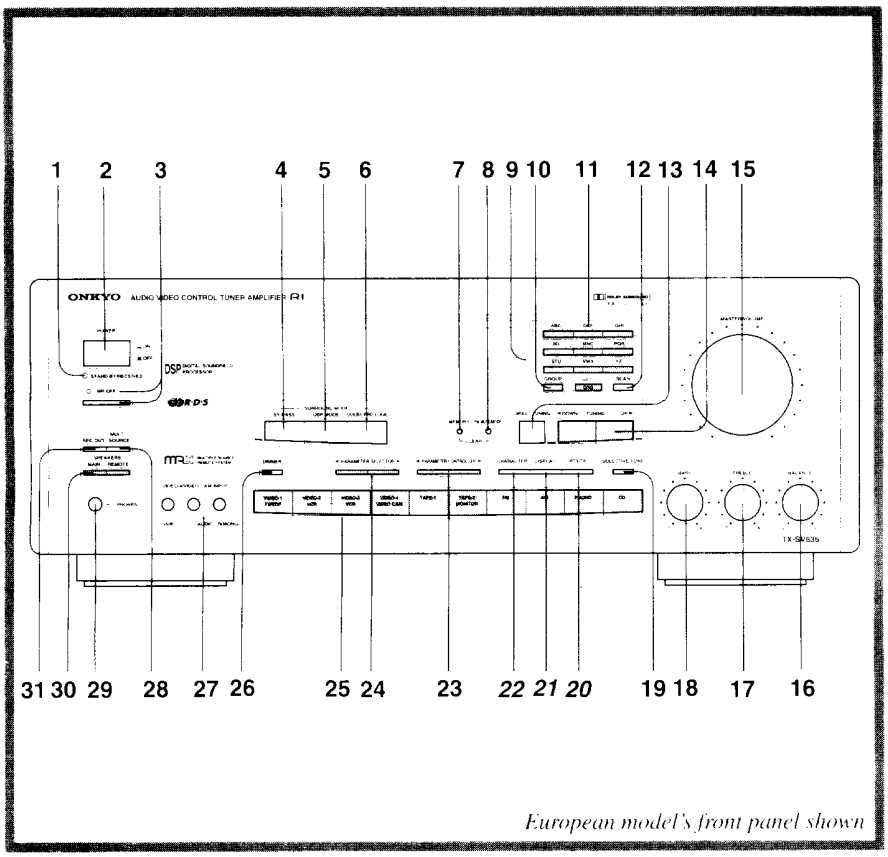
Placing the rear speakers

To bring out the feeling of shifting sound, the rear speakers should not be placed on the floor, but would be most effective placed above ear position. They can also be placed facing the ceiling or walls to reflect the sound.

Placing a subwoofer speaker

To enjoy powerful bass sounds, install a subwoofer with a built-in power amplifier. The placement of the Subwoofer does not affect the final quality of the sound image too much, therefore as its exact placement is not critical, you can install it more with the room layout in mind. To especially enjoy A/V Surround, a Subwoofer can bring out the best features of Dolby Pro Logic Surround.

Control positions and names



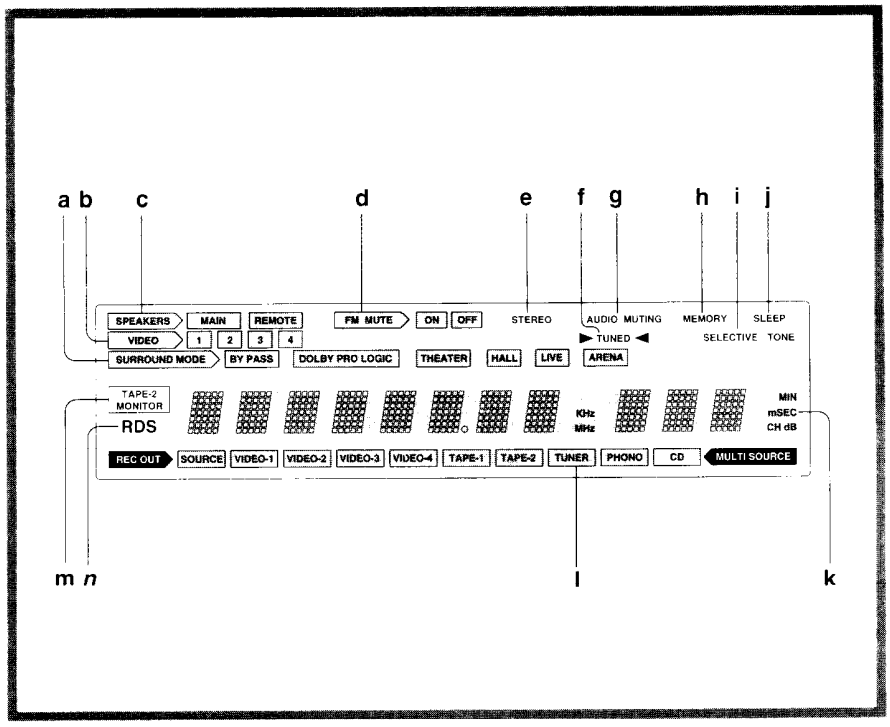
European model's front panel shown

Front panel

For more information about buttons or knobs, refer to the pages listed in the brackets ([ ]) below.

1. **STAND-BY/RECEIVED indicator [10, 23]**
2. **POWER button [22, 23]**
3. **MR OFF button and indicator [42]**
4. **BY-PASS button [33]**
5. **DSP MODE button [33, 37]**
6. **DOLBY PRO LOGIC button [33, 36]**
7. **MEMORY button [20, 25, 26]**
8. **FM MUTE/MODE button [24, 26]**
9. **Remote control sensor [10]**
10. **GROUP button [25, 29]**
11. **Number buttons [24, 25]**
    Number/Character buttons (European model) [24, 25, 29]
12. **PRESET SCAN button [25]**
    SCAN button (European model) [25, 28]
13. **DIRECT TUNING button [24, 28]**
14. **TUNING UP/DOWN buttons [24, 28, 29]**
15. **MASTER VOLUME control knob and indicator [22, 36]**
16. **BALANCE control knob [22, 23]**
17. **TREBLE control knob [22, 23]**
18. **BASS control knob [22, 23]**
19. **SELECTIVE TONE control button [22, 23]**
20. ***PTY/TP (RDS) button [28]***
21. ***DISPLAY button [28]***
22. ***CHARACTER button [29]***
23. **PARAMETER CONTROLLER buttons [33, 34, 36, 37, 38, 39]**
24. **PARAMETER SELECTOR buttons [33, 34, 36, 37, 38, 39]**
25. **Input selector buttons [22, 24, 30, 31, 32, 36, 42, 43]**
26. **DIMMER button [23]**
27. **VIDEO-4/VIDEO CAM INPUT jacks [12]**
28. **MULTI-SOURCE button [42]**
29. **PHONES jack [23]**
30. **SPEAKERS MAIN/REMOTE selector buttons [22, 23, 42]**
31. **REC OUT button [30, 31, 32]**

NOTE:
Italic numbers (20, 21 and 22) are only for the European model features.



Display

If there is a protective film on the surface of the display, which is making it difficult to read the display, remove it.

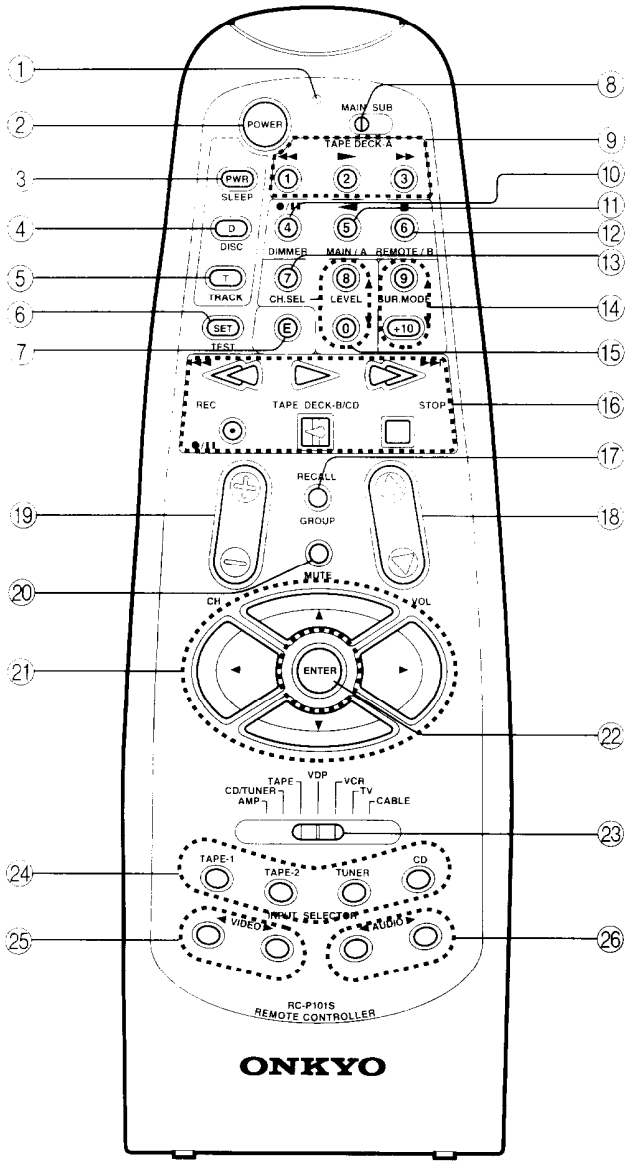
a. **Surround mode indicators**
b. **Video input select indicators**
c. **Speaker select indicators**
d. **FM Mute indicators**
e. **FM Stereo indicator**
f. **Tuned indicator**
g. **Audio Muting indicator**
h. **Memory indicator**
i. **Selective Tone indicator**
j. **Sleep indicator**
k. **Multi function display (Frequency/Input selector/Character/Preset station/Sleep time/Multi-source volume level/Center & rear volume level/Delay time)**
l. **Recording out/Multi-source indicators**
m. **Tape-2 Monitor indicator**
n. RDS indicator (European model only)

Remote controller

Connecting the TX-SV636 and an Onkyo audio device bearing RI (Remote Interactive) mark (such as a compact disc player or cassette tape deck) allows you to control the connected Onkyo products using the TX-SV636's remote controller. Refer to "Connections for remote control" on page 10 for more information on RI-connection.

You can also use the remote controller to operate other brands of video devices in the same way if you program a device code into the remote controller. Refer to the attached "Remote Controller Set-up & Cord List" for more information on how to program a device code.

- The function of the remote controller buttons may differ depending on the position of the Device select switch ㉓. Refer to the following explanation of the button functions.
- In the following section, an asterisk (✱) indicates the position of the Device select switch ㉓ and the function available with that position. The function of the buttons without an asterisk is always available regardless of the switch position.
- Note for European model: the remote controller cannot be used when the POWER button on the front panel is set to OFF.



① **Remote control operation indicator**

② **POWER button**

Turns on/off the power to the TX-SV636.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

③ **PWR/SLEEP button**

✱ ***AMP, CD/TUNER, TAPE***

Functions as a sleep button. Press to set the power-off timer. The sleep timer turns off the power to the system after a certain period of time elapses. When this button is pressed, "90 MIN" is displayed for 5 seconds and the power goes off 90 minutes later. Each time the button is pressed during the next five seconds, the timer setting changes in 10 minute intervals, such as 80, 70, 60... While the sleep timer is operating, the SLEEP indicator is lit. If the sleep button is pressed during this sleep time, the amount of time remaining on the timer is displayed. If the button is pressed during that display, 10 minutes will be subtracted from the time. If the button is pressed when the panel display shows 10 minutes or less, the sleep timer is cancelled and the power is not turned off.

✱ ***VDP, VCR, TV, CABLE***

Turns on/off the power to the video device selected via the Device select switch ㉓.

④ **D/DISC button**

✱ ***CD/TUNER***

Changes the disc number of an Onkyo CD changer bearing the RI mark.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

⑤ **T/TRACK button**

✱ ***VCR, TV***

Toggles between the VCR and TV screens.

✱ ***CD/TUNER***

This button allows you to specify a track number on an Onkyo CD player bearing the RI mark using a numeric key.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

⑥ **SET/TEST button**

✱ ***AMP***

Functions as a test tone for adjusting the volume balance between the front, center, and rear speakers.

✱ ***VDP, VCR, TV, CABLE***

Pressing this button enables you to start of programming other brands' video device codes into this remote controller.

⑦ **Enter button**

✱ ***VDP, VCR, TV, CABLE***

Pressing this button will allow you to enter other brands' video device codes into this remote controller.

⑧ **MAIN/SUB select switch**

Switch this to "MAIN" to control the system from the main room using the remote controller; switch this to "SUB" to control it from the sub room.

⑨ **1/◀◀, 2/▶, 3/▶▶ buttons**

✱ ***TAPE***

These buttons function as rewind (◀◀), forward playback (▶), and fast forward (▶▶) buttons respectively for Tape Deck-A.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

✱ ***CD/TUNER, VDP, VCR, TV, CABLE***

Functions as number keys 1, 2, and 3.

- You can set the Main/Sub select switch ⑧ to "SUB" to use these buttons as number keys in order to control the CD player or tuner from a sub room.

⑩ **4/DIMMER/●/II button**

* *AMP*

This button can be used to change the brightness of the display. The brightness changes in four steps: bright, medium, dim, off.

* *TAPE*

Functions as a rec/pause button for Tape Deck-A.

* *CD/TUNER, VDP, VCR, TV, CABLE*

Functions as a number key 4.

⑪ **5/MAIN·A/◄ button**

* *AMP*

Turns the main room speakers on/off.

* *TAPE*

Functions as a reverse playback button for the Tape Deck-A.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

* *CD/TUNER, VDP, VCR, TV, CABLE*

Functions as a number key 5.

⑫ **6/REMOTE·B/■ button**

* *AMP*

Turns the sub room speakers on/off.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

* *TAPE*

Functions as a stop button for the Tape Deck-A.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

* *CD/TUNER, VDP, VCR, TV, CABLE*

Functions as a number key 6.

⑬ **7/CH SEL button**

* *AMP*

Toggles between the rear and center speakers during the volume adjustment of the surround speakers.

* *CD/TUNER, VDP, VCR, TV, CABLE*

Functions as a number key 7.

⑭ **9, +10/SUR. MODE button**

* *AMP*

Switches Surround mode.

* *CD/TUNER, VDP, VCR, TV, CABLE*

Functions as number keys 9 and +10.

⑮ **8, 0/LEVEL button**

* *AMP*

Adjusts the surround playback level of the rear and center speakers.

* *CD/TUNER, VDP, VCR, TV, CABLE*

Functions as number keys 8 and 0.

⑯ **TAPE DECK-B/CD buttons**

* *CD/TUNER*

Function as operating buttons for the CD player.

◄◄ : Fast reverse ▷ : Playback

►► : Fast forward ▷II : Pause

□ : Stop

- You can set the Main/Sub select switch ⑧ to "SUB" to control the CD player from a sub room.

* *TAPE*

Function as operating buttons for Tape Deck-B.

◄◄ : Fast rewind ▷ : Forward playback

►► : Fast forward ●II : Rec/pause

◁II : Reverse playback □ : Stop

- You can set the Main/Sub select switch ⑧ to "SUB" to control the tape deck from a sub room. In this case, however, the Rec/pause button will not work.

* *VDP, VCR, TV, CABLE*

Function as operating buttons for the VDP and VCR.

- **VDP**

◄◄ : Fast rewind ▷ : Playback

►► : Fast forward ▷II : Pause

□ : Stop

- **VCR**

◄◄ : Fast rewind ▷ : Playback

►► : Fast forward ●II : Rec/pause

▷II : Pause □ : Stop

⑰ **RECALL/GROUP button**

* *CD/TUNER*

Allows you to select a group (A, B, C) for the tuner preset memory.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

* *TV, CABLE*

Allows you to select a previously-selected channel.

⑱ **VOL ▲/▼ buttons**

Allows you to adjust the volume level of the device that has been selected via the Device select switch ㉓.

- You can set the Main/Sub select switch ⑧ to "SUB" to control a device other than TV and CABLE from a sub room.

⑲ **CH +/– buttons**

* *CD/TUNER*

Allows you to select a preset FM/AM broadcasting station.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

* *VCR, TV, CABLE*

Allows you to select a channel.

⑳ **MUTE button**

This button temporarily switches off the sound from the speakers or headphones by operating this unit's audio muting circuits. The AUDIO MUTING indicator will flash. Pressing the button again or using the POWER button on the remote controller to turn the power on will turn off the audio muting.

Audio muting using this button does not affect the sound of the multi-source (Remote speakers).

㉑ **On-screen cursor operation buttons**

Allow you to move the cursor during on-screen display.

㉒ **ENTER button**

Allows you to confirm or cancel the cursor operation during on-screen display.

㉓ **Device select switch**

Select an appropriate switch setting according to the device you are controlling. This switch is also used when you set a remote control code.

㉔ **INPUT SELECTOR buttons**

Allow you to select an input from TAPE-1, TAPE-2, TUNER or CD.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

㉕ **VIDEO ◄/► buttons**

Allow you to select an input from VIDEO 1 through 4.

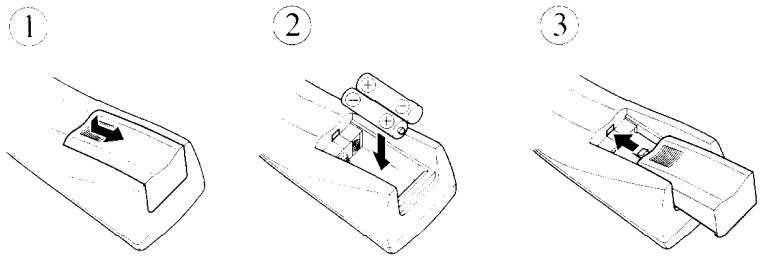
- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

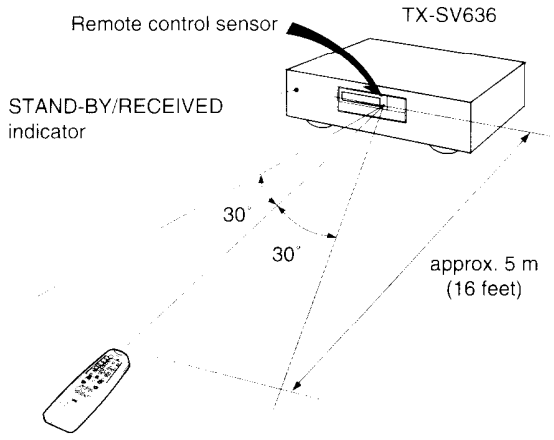
㉖ **AUDIO ◄/► buttons**

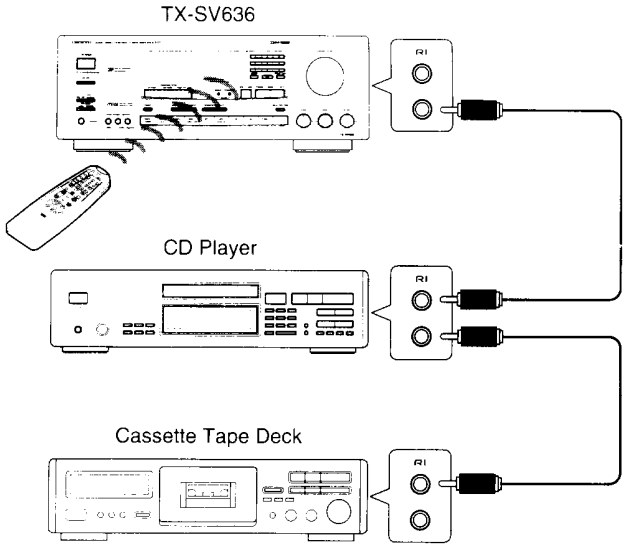
Allow you to select an input from TAPE-1, TAPE-2, TUNER, PHONO or CD.

- Set the Main/Sub select switch ⑧ to "SUB" to control the system from a sub room.

Insert the batteries into the remote controller following the illustration below.







Regarding the batteries

Average battery life is about one year, depending upon the frequency of use and the environment (temperature and humidity) in which the remote control is used. Only use batteries of the kind specified in the table below.

Type	Voltage	Size
Manganese Alkaline	1.5V	AA, R6 (UM-3) or LR6 (AM-3)

Warning

- Do not leave an expired battery in the case – it may leak or damage the remote controller.
- Do not use nickel cadmium (rechargeable) batteries.
- Replace both batteries at once; do not use one old battery and one new battery.

Using the remote controller

The STAND-BY/RECEIVED indicator lights when a signal is received from the remote controller.

The following information will help you get optimal use from the remote controller.

- Place this unit away from direct bright light, which can prevent proper operation of the remote control.
- Make sure audio rack doors do not have tinted glass. If this unit is placed behind such a door, this may prevent proper remote control operation.
- Using other remote controllers in the same room as this unit's remote controller may cause interference.

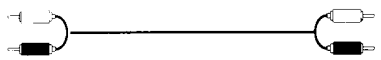
Connections for remote control (RI)

A cassette tape deck and compact disc player that have the Onkyo RI mark can be operated using the accessory remote controller with this unit.

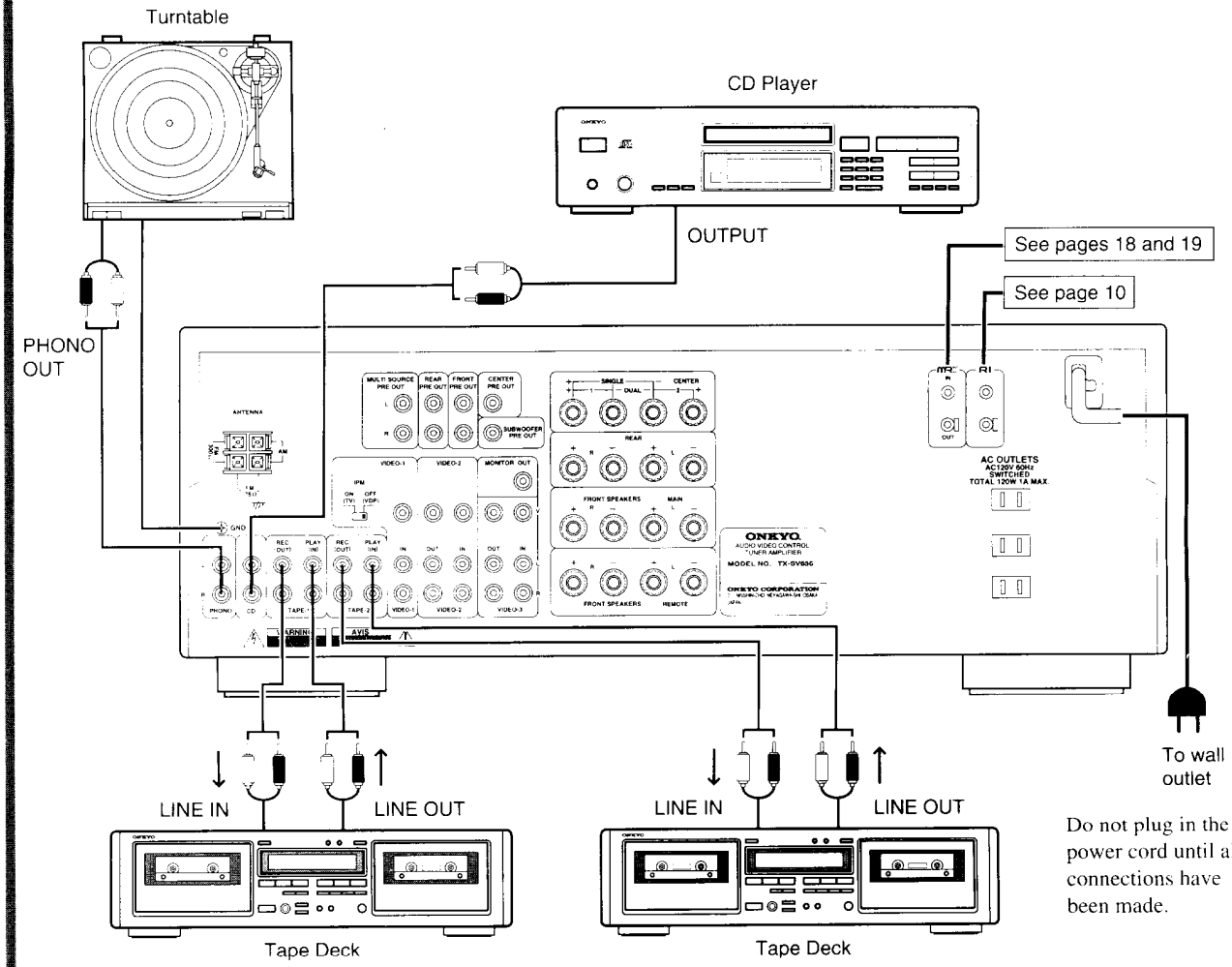
Connect a remote control cable to the black jack with the RI mark. Never connect it to the gray or green jack with the MR mark. Connect the remote control cable as shown left side to enable remote control operation of other components.

- To enable proper remote control operation, both the RI cable and the audio cables must be connected between units.
- This unit's remote controller cannot be used to control Onkyo turntables.
- An RI remote control cable equipped with a 3.5mm (1/8 in.) diameter miniature two-conductor phone plug is included with this unit and with any other component with the RI mark.

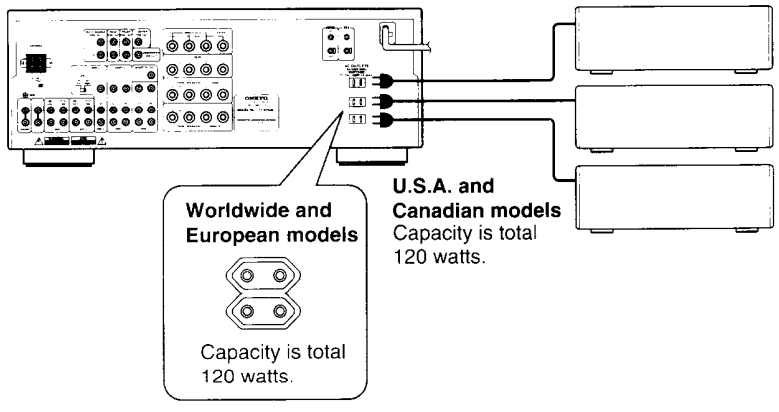
Audio equipment connections



- **On each pair of input jacks, the lower jack (marked R, red) corresponds to the right channel, and the upper jack (marked L, white) to the left channel.**
- **Please refer to the instruction manual of each component when making any connections.**
- **This unit is designed for use with turntables using moving magnet cartridges.**



Do not plug in the power cord until all connections have been made.

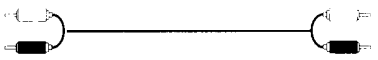


AC Outlets Connections

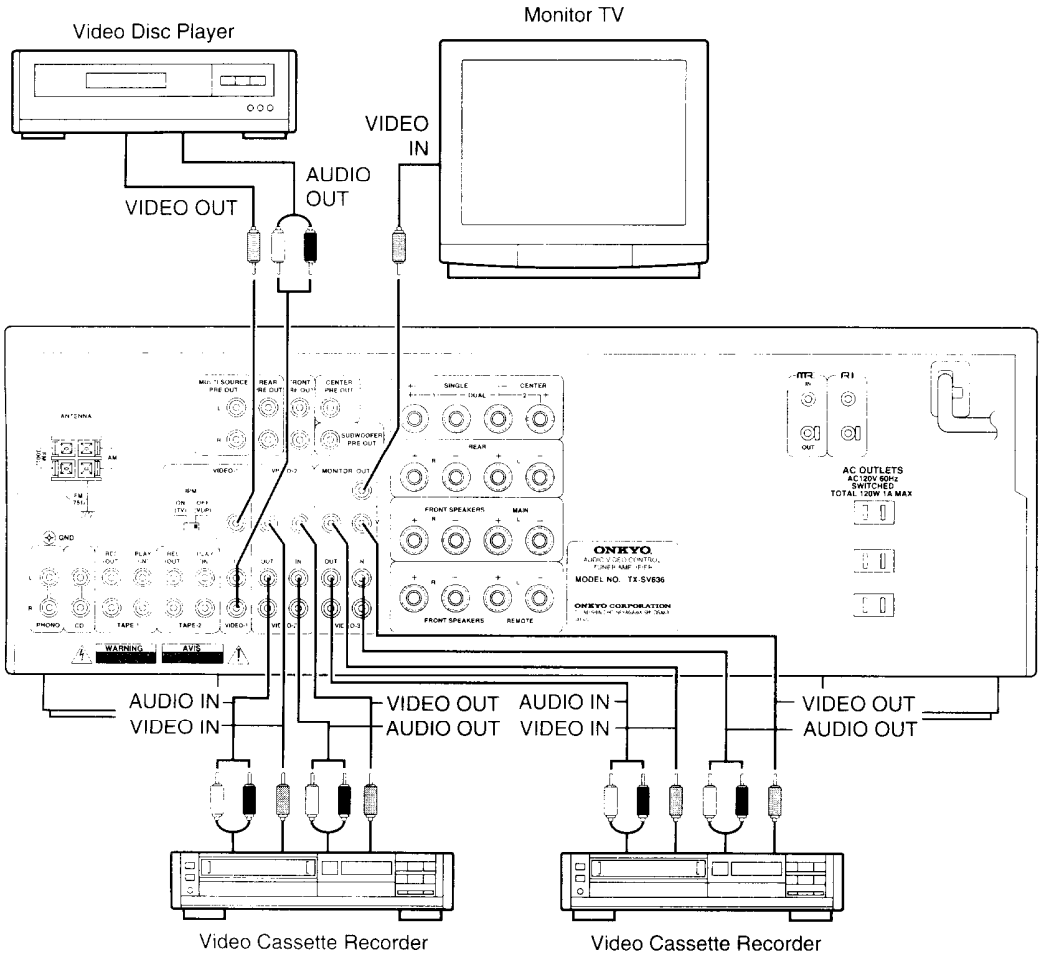
The SWITCHED outlets are switched on and off by the POWER button on the front panel or remote controller. (Note for European model: the remote controller cannot be used when the POWER button on the front panel is set to the OFF.)

The shape, number and total capacity of the AC outlets may differ according to the area where the unit is purchased. Be careful that other components connected to this unit do not exceed the capacity that is printed on the rear panel above the AC outlets.

Video equipment connections

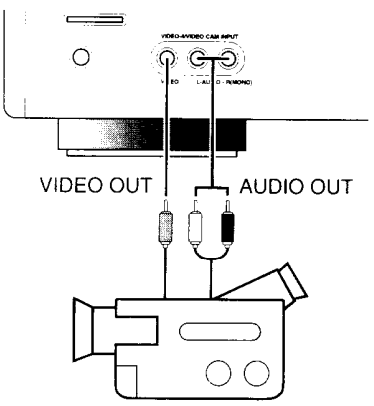


- **On each pair of input jacks, the lower jack (marked R, red) corresponds to the right channel, and the upper jack (marked L, white) to the left channel.**
- **Please refer to the instruction manual of each component when making any connections.**



- The IPM (Intelligent Power Management) function can operate only if a TV is connected to the VIDEO-1 jacks. (See page 13).
- When using a playback-only VCR, you only need to make the output connections.
- This unit can be used with only a monitor TV equipped with a video input jack.
- Interference may be caused between the TV and this unit. If this interference occurs place this unit and the TV as far apart as possible. We do not recommend the use of a common TV/FM antenna (see antenna section).

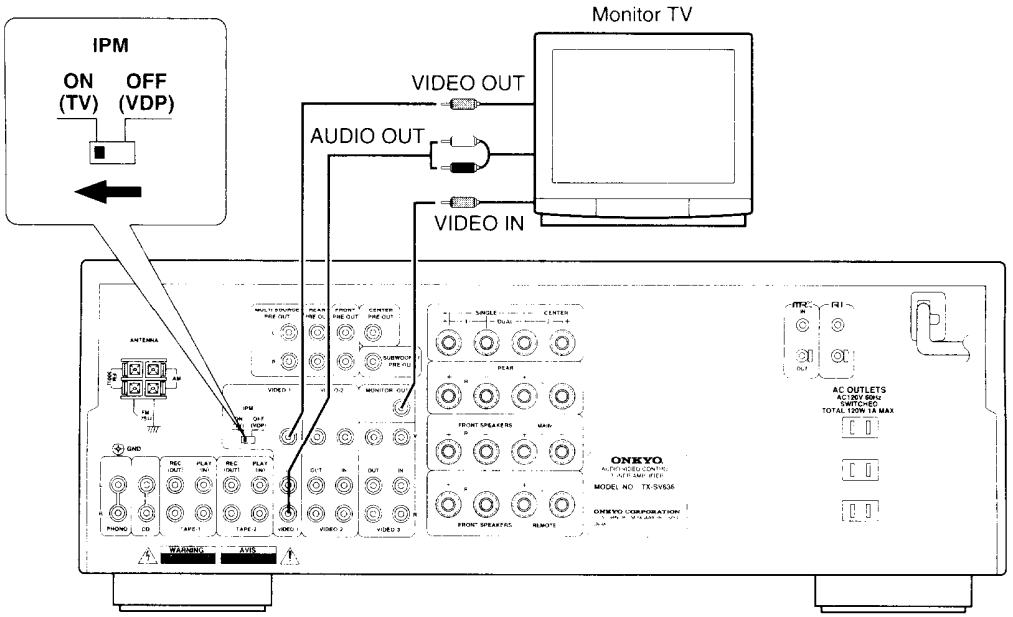
VIDEO-4/CAMCORDER



- When video equipments connected to the VIDEO-4 is mono, use to the R (MONO) AUDIO input jack.

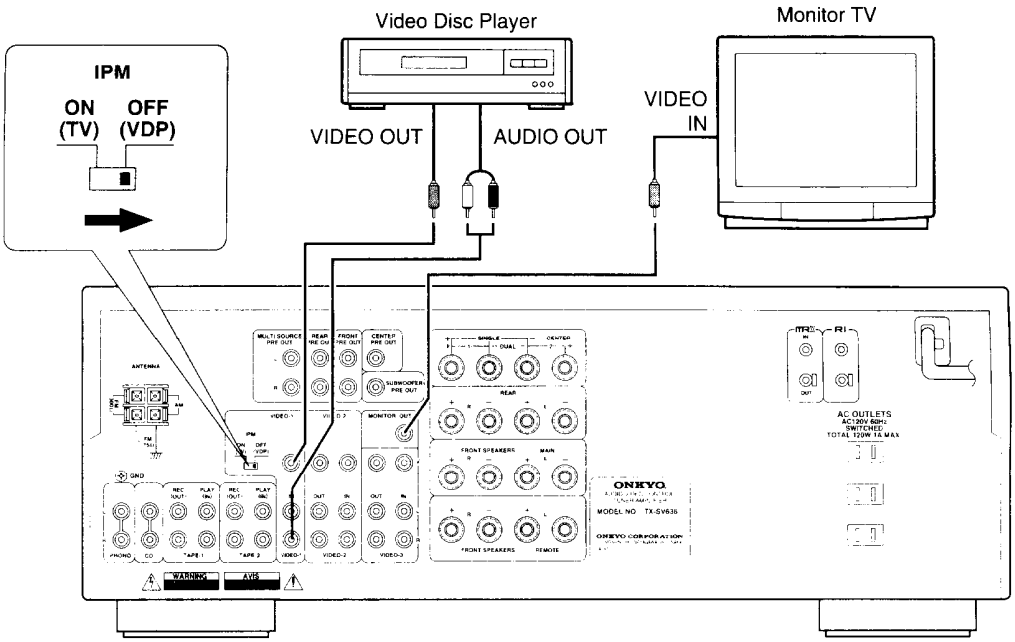
IPM (Intelligent Power Management) System

To use the IPM function you must connect the video output of a monitor TV to the VIDEO-1 jacks and set the IPM switch to ON (TV). "VIDEO-1 TV" will be shown on the display.
When the TV is switched on, this unit switches on automatically and the input selector is set to VIDEO-1 TV/VDP. Provided that the input selector remains set to VIDEO-1 TV/VDP, this unit will automatically switch off five minutes after the TV is switched off.



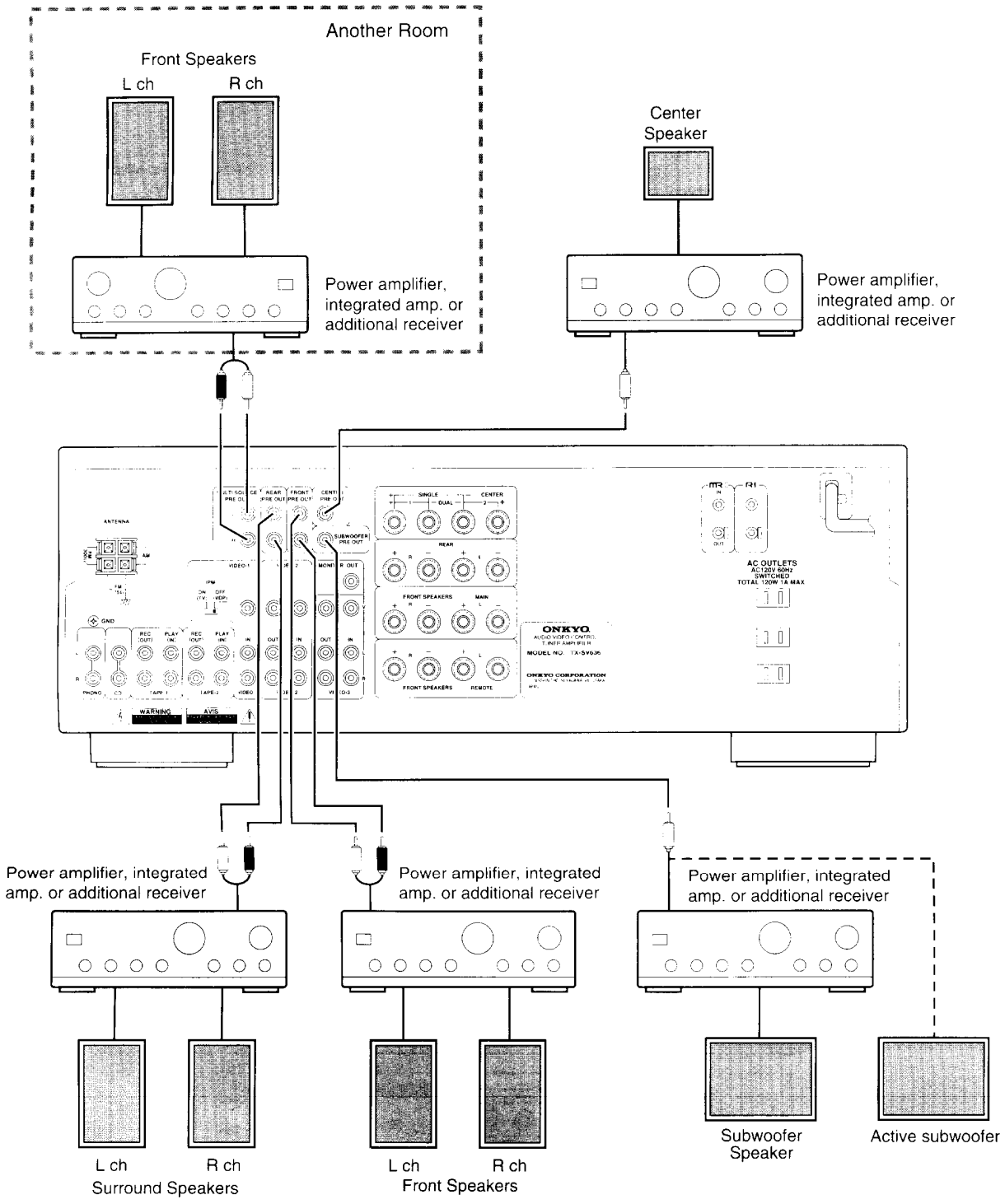
- This unit will automatically switch on approximately three to five seconds after the TV comes on.
- If the TV is on but the screen is blank, the IPM function will not work.
- If a mono TV is used, connect the audio output of the TV to the VIDEO-1 "R" jack.

When a VDP is connected to the VIDEO-1 jacks, set the IPM switch to OFF (VDP). "VIDEO-1 VDP" will be shown on the display. The IPM function cannot be used in this situation.



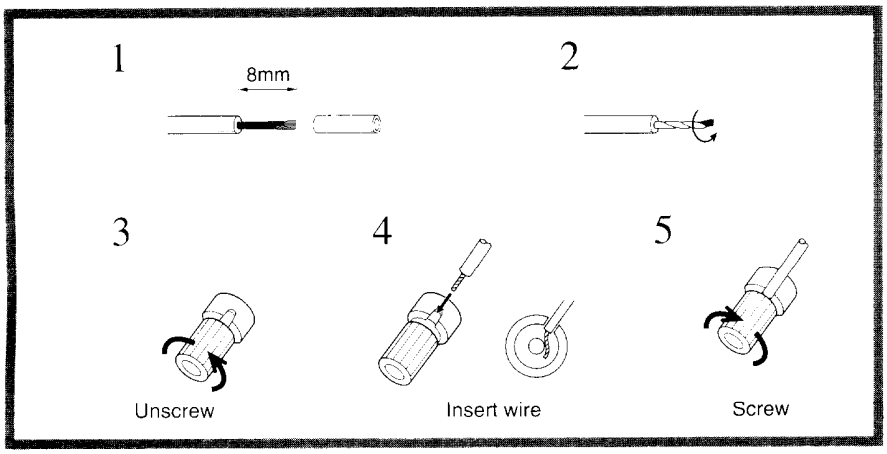
Optional power amplifier connections

This unit is equipped with a set of PRE OUT terminals which allow you to connect external power amplifiers for surround sound. Connect the power amplifiers to the PRE OUT terminals of this unit, and connect the corresponding speakers to those power amplifiers.



- When using power amplifiers connected to the FRONT, REAR, CENTER and/or SUB WOOFER PRE OUT jacks, set the SPEAKERS MAIN button on the front panel to ON.
- When using power amplifier connected to the MULTI SOURCE PRE OUT jacks, set the SPEAKERS REMOTE button on the front panel to ON.

Making speakers connections

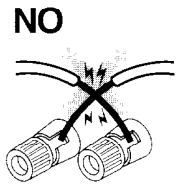


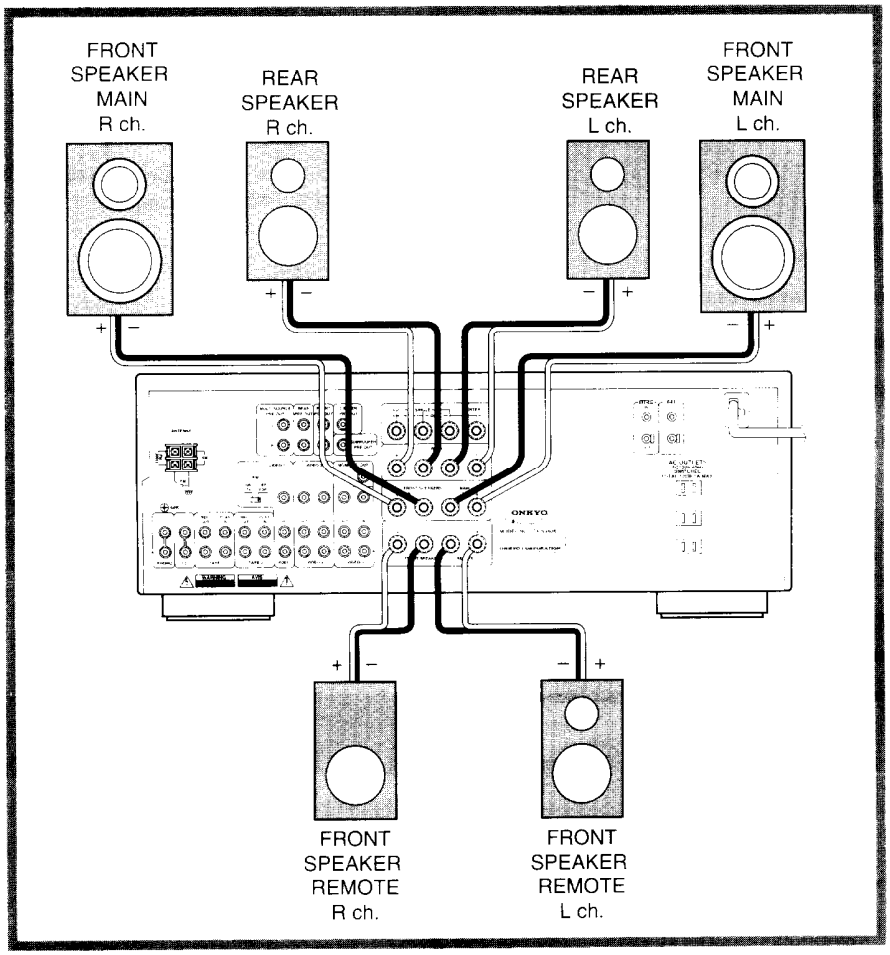
Connecting the speaker cables

When using banana plugs, make sure the speaker terminal screws are screwed in firmly before inserting the banana plugs.

- Speaker terminals on European models are not banana-plug compatible.

NOTE:
To prevent damage to circuitry, never short-circuit the positive (+) and negative (–) speaker wire.




FRONT SPEAKER MAIN R ch.
REAR SPEAKER R ch.
REAR SPEAKER L ch.
FRONT SPEAKER MAIN L ch.
FRONT SPEAKER REMOTE R ch.
FRONT SPEAKER REMOTE L ch.

Connecting the front, rear and remote speakers

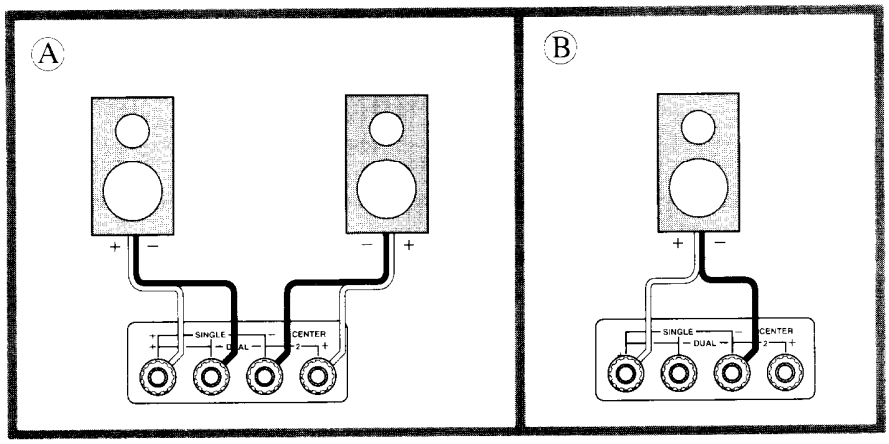
If you want to use the Surround effects, the Rear and Center speakers must be connected. Please refer to "Connecting the Center speaker(s)" below when connecting Center speaker(s).

The speakers that are to be located in the same room as this unit should be connected to the FRONT SPEAKERS MAIN terminals.

Different sets of speakers that are to be located in another room (or the same room) should be connected to the FRONT SPEAKERS REMOTE terminals.

To get the full effects of the Surround processor, ensure the left and right FRONT SPEAKERS MAIN and REAR speakers are not reversed.

- Use speaker cables that have a low impedance and that are as short as possible.
- SPEAKER IMPEDANCE
  FRONT MAIN:
  6 ohms min./speaker
  SINGLE CENTER, REAR, FRONT REMOTE:
  8 ohms min./speaker
  DUAL CENTER:
  4 ohms min./speaker

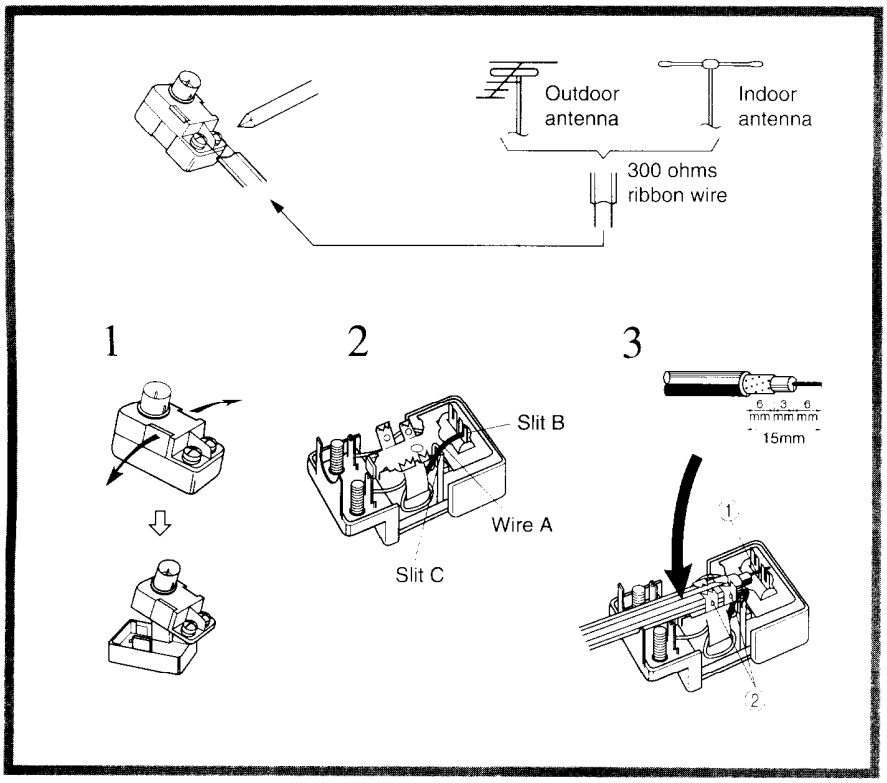


Connecting the center speaker(s)

Connect the center speaker to the TX-SV636 as shown left illustration.

A : When using 2 center speakers.
B : When using 1 center speaker.

Making antenna connections



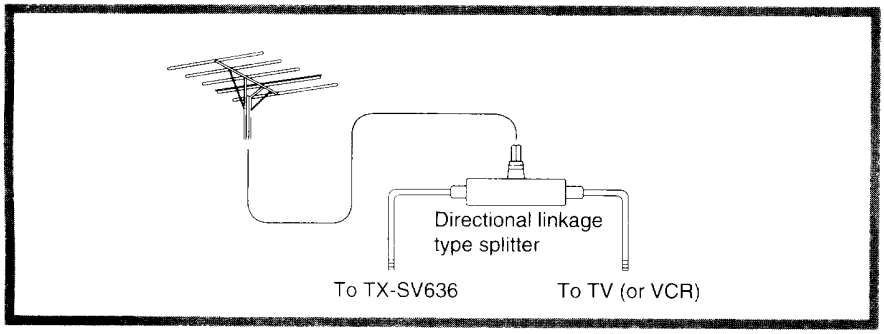
Connecting the antenna cable to the 75/300 ohm antenna adaptor (Worldwide models)

Connecting the 300 ohm ribbon wire:
Loosen the screws and wrap the wire around these screws. Then tighten the screws with a screwdriver.

Connecting the coaxial cable:

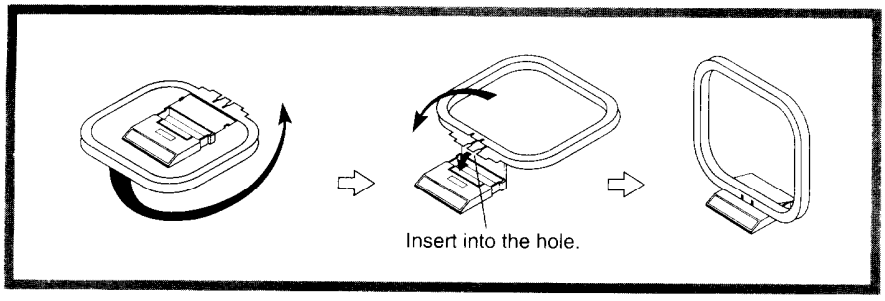
1. With your fingernail or a small screwdriver, press the stoppers outwards and remove the cover.
2. Remove the transformer wire A from slit B and insert it into slit C.
3. Prepare the coaxial cable as shown in the diagram.
   Connect the 75/300 ohm antenna adaptor to the coaxial cable.
   1 Insert the end of the cable.
   2 Clamp it in place with pliers.

- This adaptor is included if your TX-SV636 is a worldwide model.



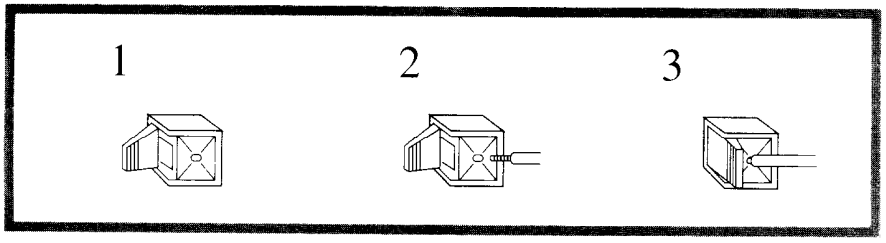
Directional linkage

Do not use the same antenna for both FM and TV (or VCR) reception since the FM and TV (or VCR) signals can interfere with each other. If you must use a common FM/TV (or VCR) antenna, use a directional linkage type splitter.



Assembling the AM loop antenna

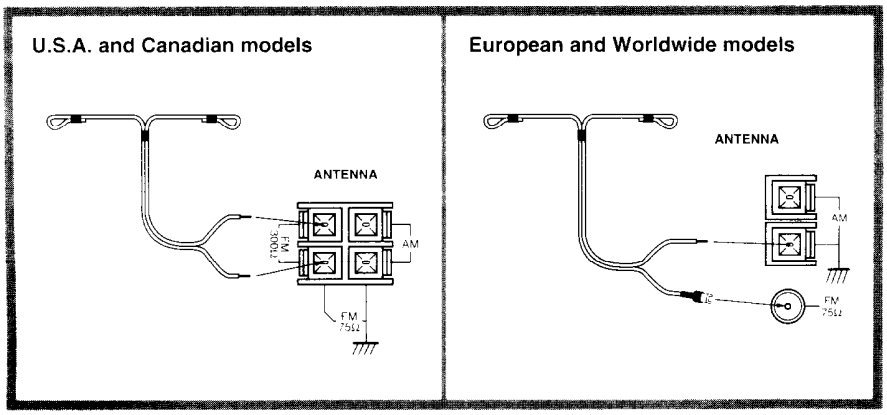
Assemble the loop antenna as shown in the illustration.



Connecting the antenna cable

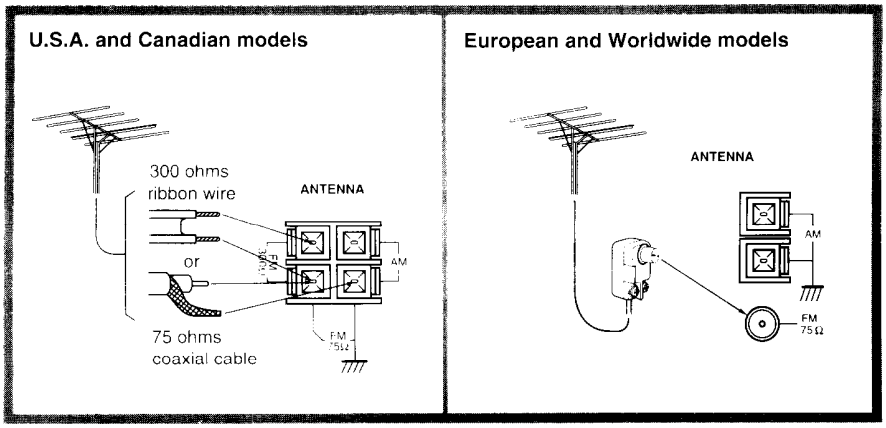
1. Open the lever.
2. Insert the wire.
3. Close the lever.

Making antenna connections



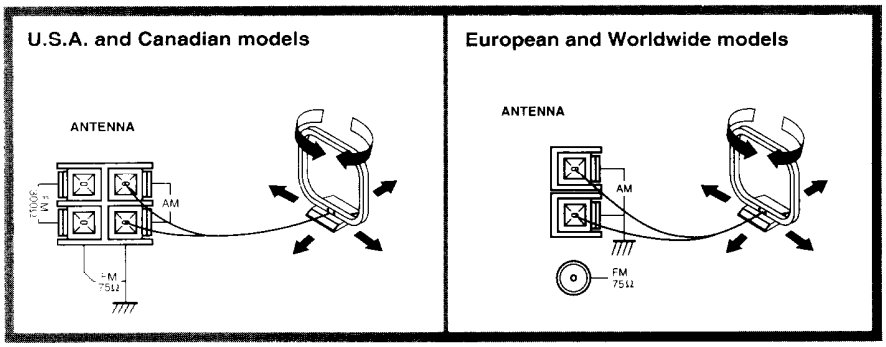
Connecting the T-shaped FM antenna

The T-shaped FM antenna is for indoor use only. Extend the antenna and move it in various directions until the clearest signal is received. Fix it with push pins or similar in the position giving the least amount of distortion.



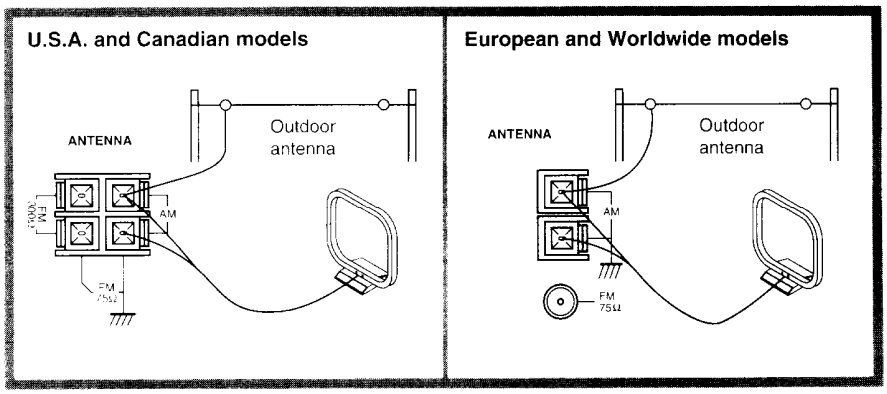
Connecting an FM outdoor antenna

If the reception is not very clear with the attached T-shaped FM antenna, the use of an external antenna is recommended.
Please make sure that you comply with the following considerations regarding the location.
Keep the antenna away from noise sources (neon signs, busy roads etc.).
It is dangerous to put it close to power lines, so keep it well away from power lines, etc.



Connecting the AM loop antenna

The AM loop antenna is for indoor use only. Set it in the direction and position where you receive the clearest sound. Put it as far as possible away from the main unit, TV set, speaker cords and power cord.



Connecting an AM outdoor antenna

When reception is not satisfactory using the attached AM loop antenna alone, connection of an external antenna is recommended.
(Do not remove the AM loop antenna.)
The external antenna will be more effective if you stretch it horizontally in a high place above a window or outside.

Connection for multiple-room remote control

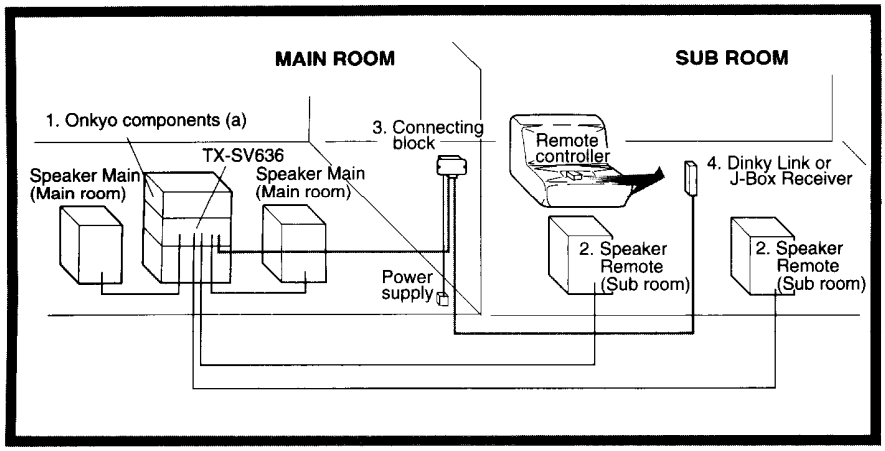
U.S.A. and Canadian models (Xantech Multiple-Room systems)

Do not plug in the power cord until all connections have been made.

When making connections ① through ⑤, be sure to connect the units as shown in the connection diagram below. Do not make a mistake when connecting the units.

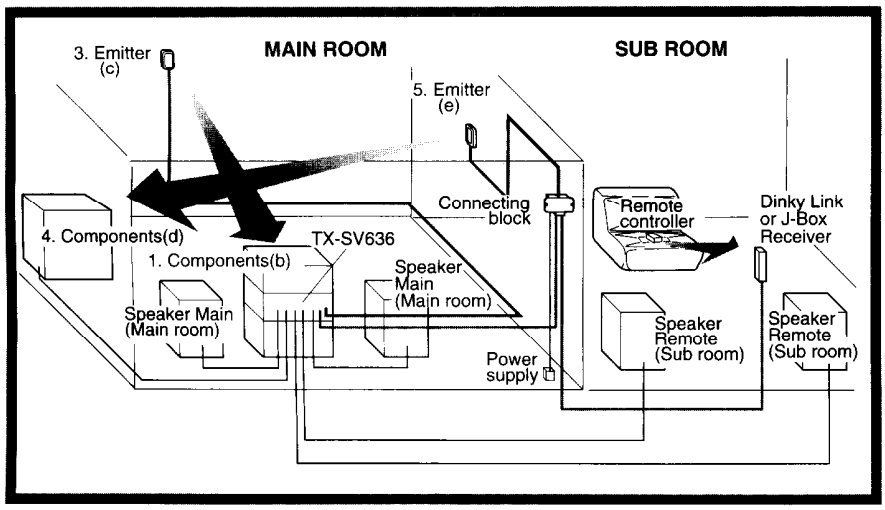
A. Operating components displaying Onkyo's RI mark from the sub-room

Components mounted in a rack should be connected as shown below to enable remote control operation.



1. Set up the components (a) displaying Onkyo's RI mark.
2. Connect the speaker remote cables to the speaker terminal on the TX-SV636. ①
3. Install Connecting Block 789-40 in the main room, then connect it to the TX-SV636. ②
   (Connect Power Supply 781C-00 to the Connecting Block.)
4. Install Xantech's J-Box Receiver 780-10 or Dinky Link 480B-00 in the sub-room, then connect it to the Connecting Block in the main room. ③

B. Using a remote controller to operate components not displaying Onkyo's RI mark from the sub-room

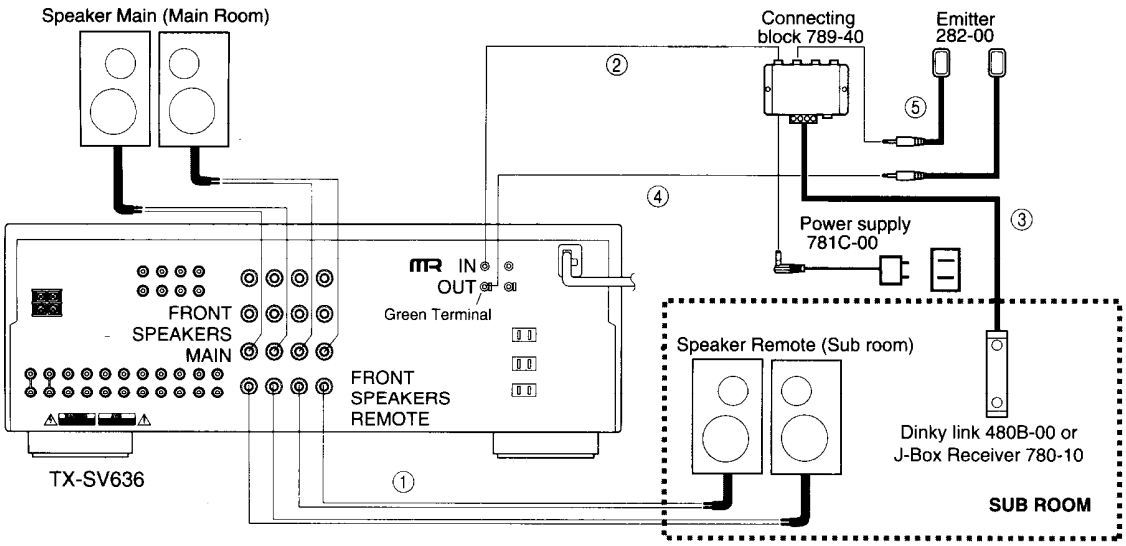


1. Connect the components (b) to the TX-SV636.
2. Make the connections described above in steps 2 through 4 of section A.
3. Install Emitter 282-00 (c) so that its sensor is directed toward these components, then connect it to the TX-SV636. ④

- Operating components which are positioned out of the range of the emitter installed as described above.

4. Connect the components (d) to the TX-SV636.
5. Install another Emitter 282-00 (e) so that its sensor is directed toward these components, then connect it to the Connecting Block 789-40. ⑤

Connection diagram



Connection for multiple-room remote control

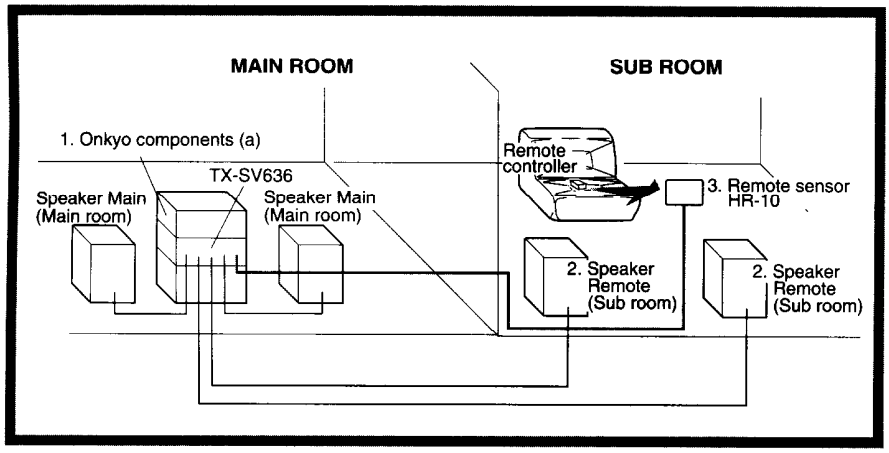
Model other than U.S.A. and Canadian models (Onkyo Multi-Room systems)

Do not plug in the power cord until all connections have been made.

When making Connections ① through ④, be sure to connect the units as shown in the connection diagram below. Do not make a mistake when connecting the units.

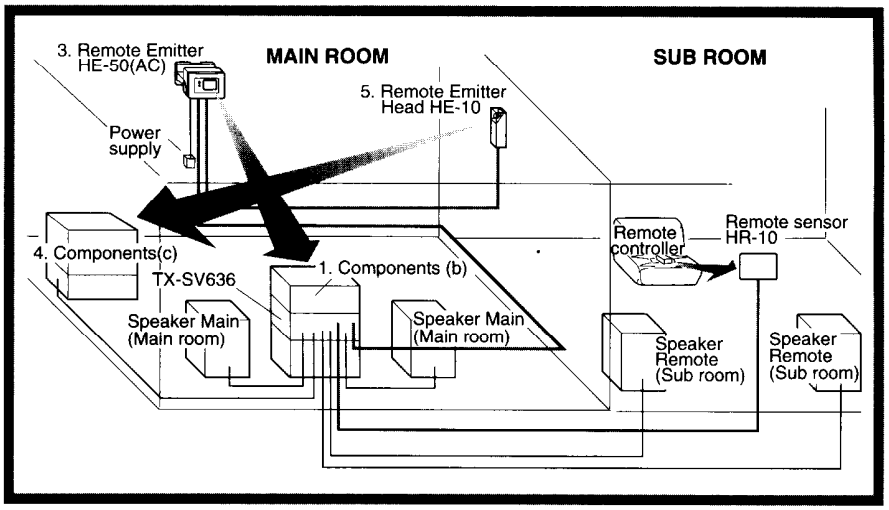
A. Operating components displaying Onkyo's RI mark from the sub-room

Components mounted in a rack should be connected as shown below to enable remote control operation.



1. Set up the components (a) displaying Onkyo's RI mark.
2. Connect the speaker (sub room) cables to the speaker terminal on the TX-SV636. ①
3. Install Remote Sensor HR-10 in the sub-room, then connect it to the TX-SV636. ②

B. Using a remote controller to operate components not displaying Onkyo's RI mark from the sub-room

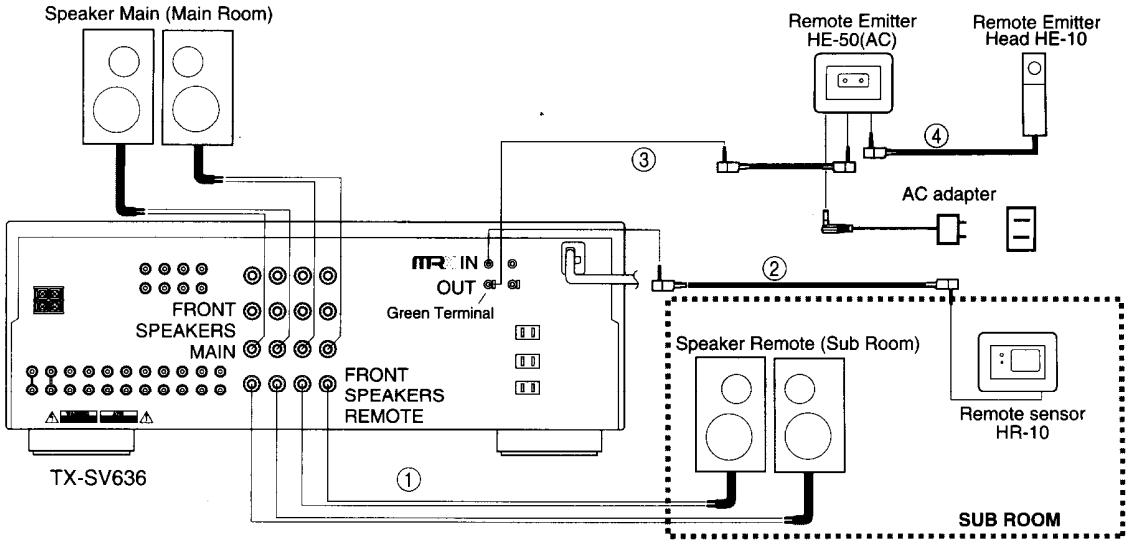


1. Connect the components (b) to the TX-SV636.
2. Make the connections described above in steps 2 through 3 of section A.
3. Install Remote Emitter HE-50 (AC) so that its sensor is directed toward these components, then connect it to the TX-SV636. ③ (Connect the AC adapter to the Remote Emitter.)

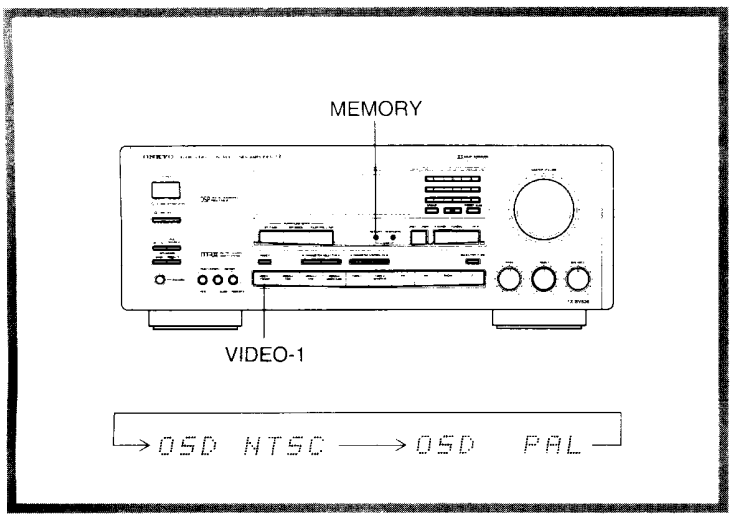
- Operating components which are positioned out of the range of the emitter installed as described above.

4. Connect the components (c) to the TX-SV636.
5. Install Remote Emitter Head HE-10 so that its sensor is directed toward these components, then connect it to the HE-50 (AC). ④

Connecting diagram



Using the On-screen display function

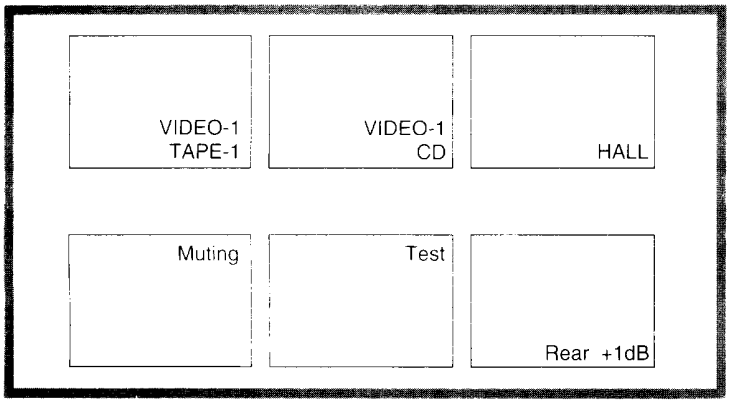


You can use the remote controller to operate all the on-screen display function.

Switching between the NTSC and PAL systems

If your TX-SV636 is an U.S.A. or Canadian models:
The on-screen display function is only available when an NTSC TV system is used.

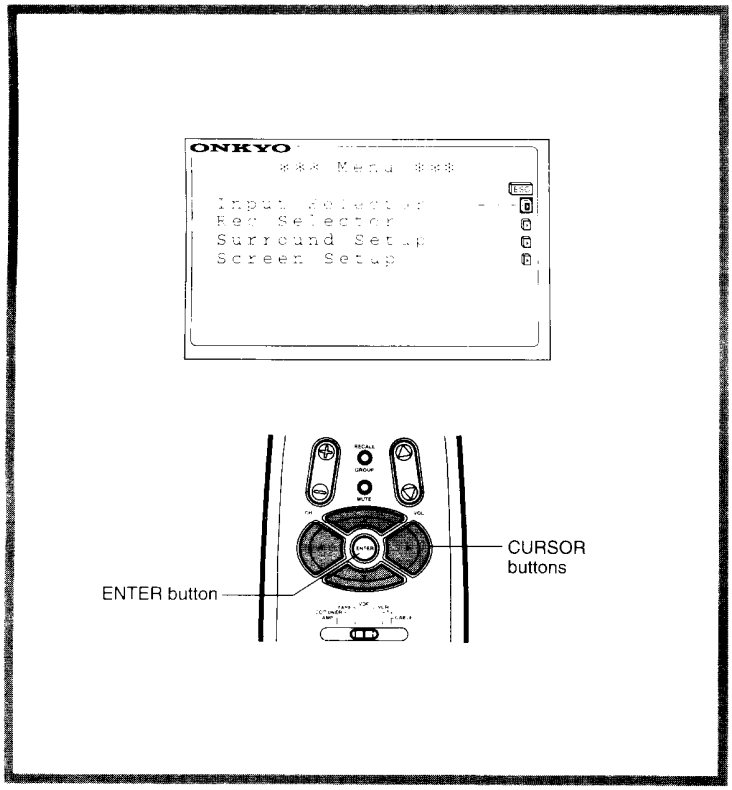
If your TX-SV636 is an other area models:
The type of TV system can be switched between the NTSC and PAL systems. Follow the procedures below if the TV signal is being sent, but the screen is scrolling.
While pressing the MEMORY button, press the VIDEO-1 button. The name of the TV system which was chosen will be shown on the display for three seconds.
The on-screen function uses a monitor TV connected to the TX-SV636 as a display, and is classified into two categories.



Immediate on-screen display

This is the indication shown when the input selector, the volume of the center/rear speakers or the surround mode is changed. The following items will be shown on the display during the operation of the main unit.

a. When the power is turned on.
b. When the input selector is changed.
c. When the surround mode is changed.
d. When the delay time is changed.
e. When the MUTING is pressed on the remote controller.
f. When the TEST is pressed on the remote controller.
g. When you adjust the volume level of the center and rear speakers during surround playback.



Menu on-screen

When you press the ENTER button on the remote controller, options for the Input Selector, the Rec Selector, the Surround Setup, and the Screen Setup are displayed.
The Menu screen can be operated by means of cursor buttons on the remote controller.

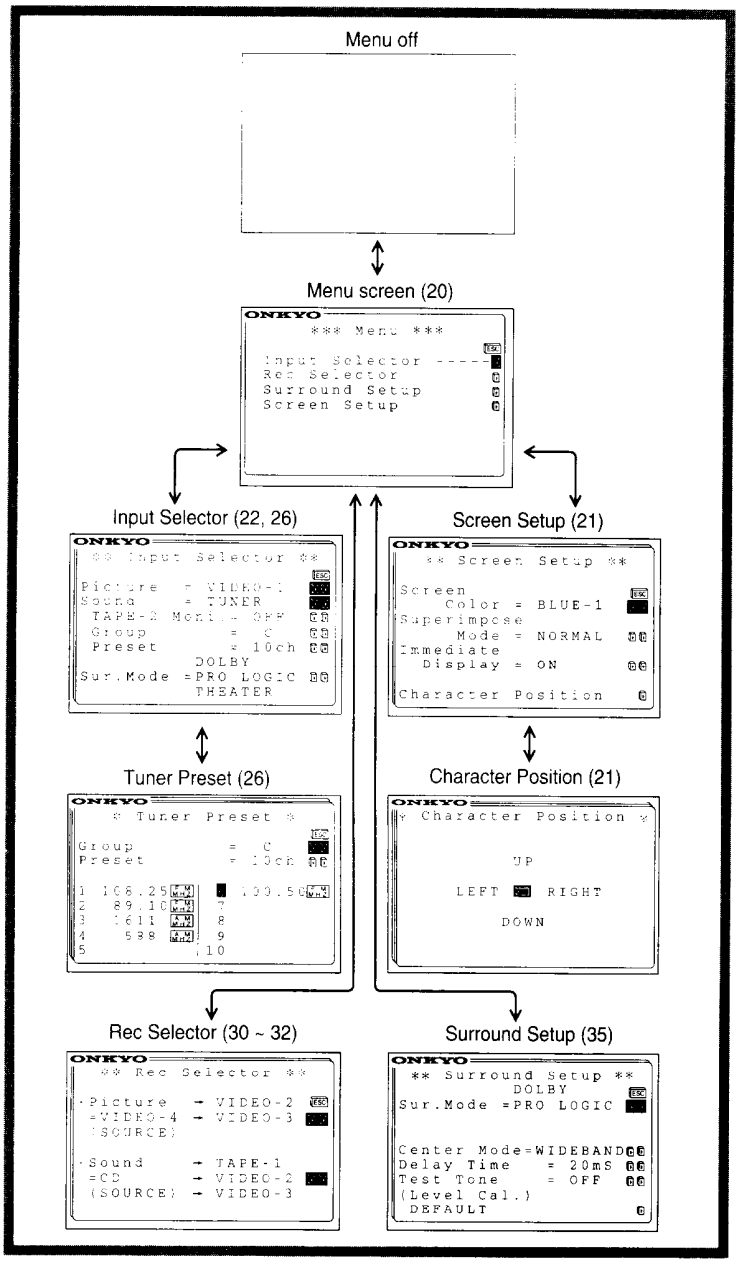
▲ and ▼ cursor buttons: Used to move the cursor upward and downward on the screen.

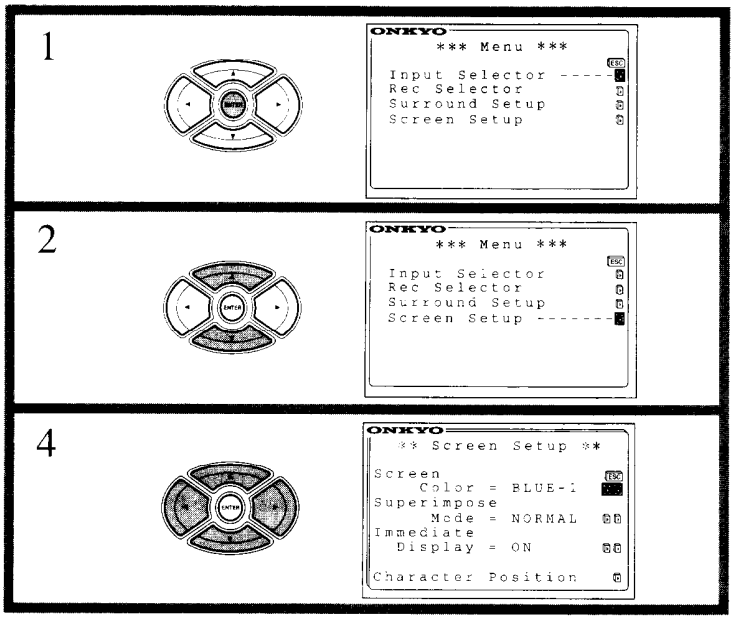
◄ and ► cursor buttons: Used to move the cursor to the left and right on the screen, and to change the parameters or select the items on which the cursor is located.

- Holding down the button will change the parameter or move the cursor continuously.
- Cursor is black and white reversed characters on the screen.
- The monitor TV should be connected to the unit to utilize this function.

NOTES:

- On-screen displays video images in the background when a video source is playing, and displays text on top of your selected colour on screen when nothing is being played back.
- On-screen is output only to the MONITOR OUT terminal, not to the record terminal (out). Therefore, even if any On-screen is displayed on the monitor TV while recording, the On-screen display is not recorded.
- Menu items on each screen differ according to the Surround mode etc. Pressing the ◄ or ► cursor button while the cursor is on some items may display a separate sub-screen.





The screen change

Please refer to the pages in the parentheses for details about each screen.

When an item is selected with the ▲ or ▼ cursor button and the ◄ or ► cursor button is pressed, another item may disappear, or in some cases the cursor may skip over some items.

Screen Setup menu

When you select the Screen Setup menu (refer to "Basic Operation" below for the procedure), the following display appears on the on-screen display.

Screen Color

You can select one of the eight background colors:

BLUE-1 ⟷ BLUE-2 ⟷ CYAN ⟷ GREEN ⟷ RED-1 ⟷ RED-2 ⟷ MAGENTA

Please note that the above color descriptions are standard descriptions. The actual colors may differ depending on the tone and brightness adjustments of the projector or TV used. When there is an image input signal, the input signal will be used for the background. Therefore the background color which you have selected will not be displayed.

Superimpose Mode

It is possible to set the on-screen display so that it is easy to read when an image input signal is connected.

NORMAL: Normal

BLACK : The image from the input signal is not displayed behind the lettering.

OFF : The image from the input signal is replaced with the back-ground color.

Immediate Display

When Immediate Display is set to ON, the Immediate Display will be shown, and when it is set to OFF, the Immediate Display will not be shown.

When Menu off is chosen (refer to the step 6 in "Basic operation" below), the selected background color will not be displayed. This can be useful when you don't want to display the message, or when you want to check the Auto/Manual tuning for TV/BS devices connected to the Image input.

Character Position

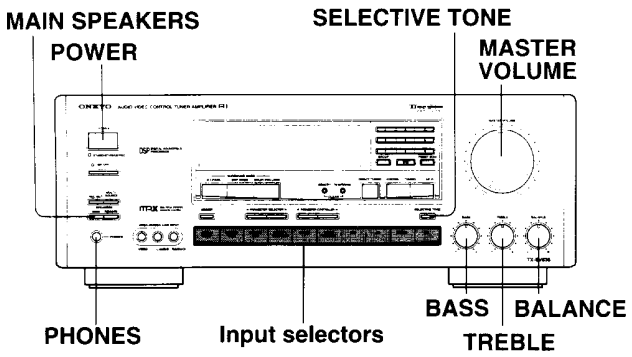
You can change the display position on the screen up or down, and to the left or right.

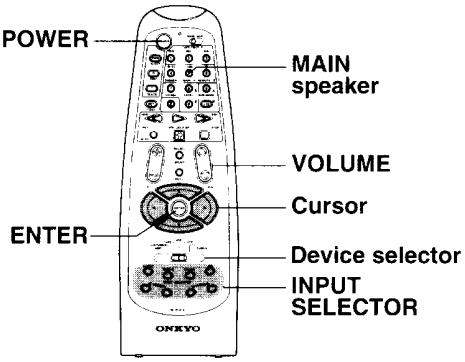
Basic operation

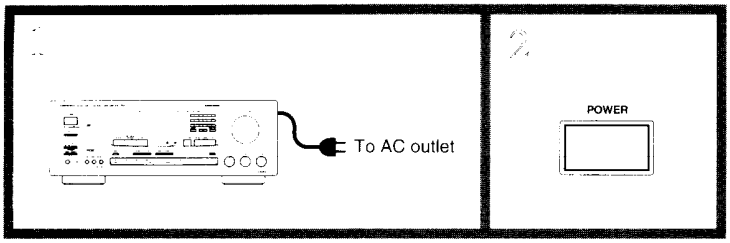
1. Press the ENTER button.
2. Select the desired menu using the ▲ or ▼ cursor buttons.
3. Press the ENTER button again or ► cursor button.
4. Select the desired item using the ▲ or ▼ cursor buttons and change the parameters and conditions of the items using the ◄ or ► cursor buttons.
5. After all the desired conditions have been input, and use the ▲ or ▼ cursor buttons to select ESC. Press the ENTER button and the screen will display the main menu.
6. Use the ▲ or ▼ cursor buttons to select ESC, and press the ENTER button to turn the Menu screen off.

- Repeat steps 2-5 in order to use the other functions.

Basic operations



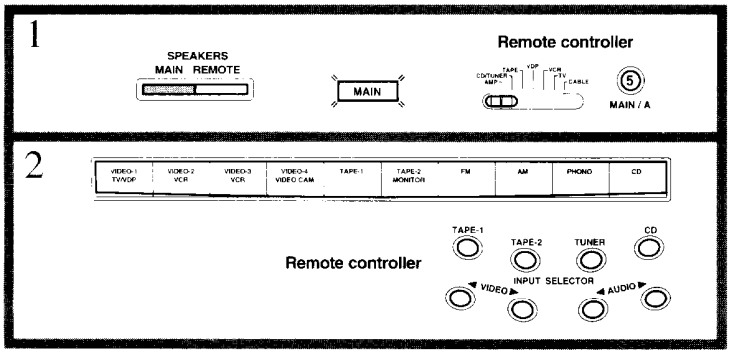




Connecting the power

Before plugging in the unit, confirm that all connections have been made properly.

1. **Insert the AC power supply cord into the wall outlet.**
2. **Press the POWER button.**
   Please refer to the "Power button and Stand-by/Received indicator" explanation on the page 23.



Listening to your favorite source

1. **If the MAIN indicator is not light on the display, press the MAIN SPEAKERS button to light the MAIN indicator.**
2. **Press the desired input selector button.**
- Check the audio muting is off.

On-screen

Press the ENTER button.
The Menu screen will be shown.

Move the cursor to Input Selector using ▲ or ▼ cursor button and press the ENTER or ► cursor button.
The Input Selector screen will be shown.

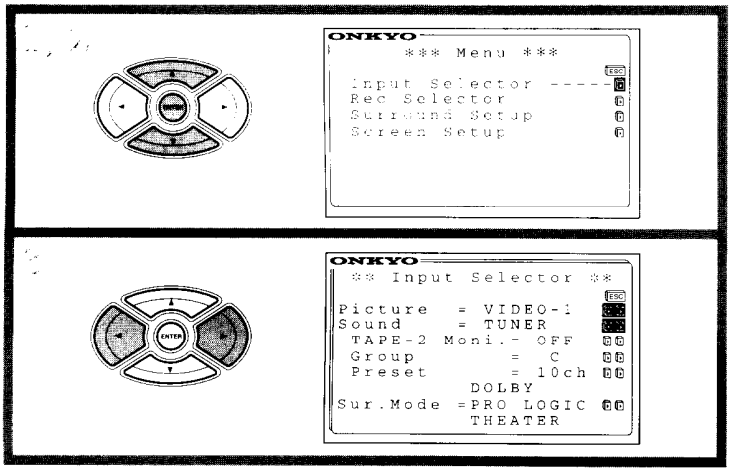
Select the desired input source.
Move the cursor to the desired selection, for example Picture, Sound, etc., and press the ◄ or ► cursor button to choose the desired source.

Picture: Indicate the input source of the picture.

Sound: Indicate the input source of the sound. When you press the ◄ or ► cursor buttons while the cursors are both Picture and Sound, you can change the input source of the Picture and Sound at the same time. However if you select other than VIDEO-1 to 4 for the input source, the image will be fixed to the most recently selected video source so that only the sound changes.

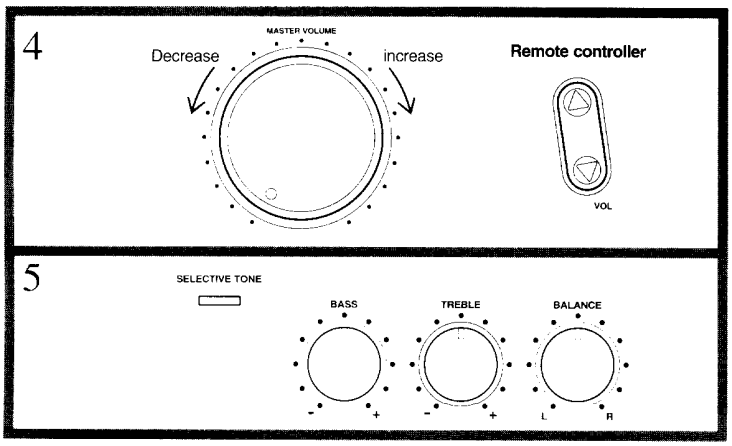
TAPE-2 Moni.: Indicates TAPE-2 MONITOR ON or OFF.

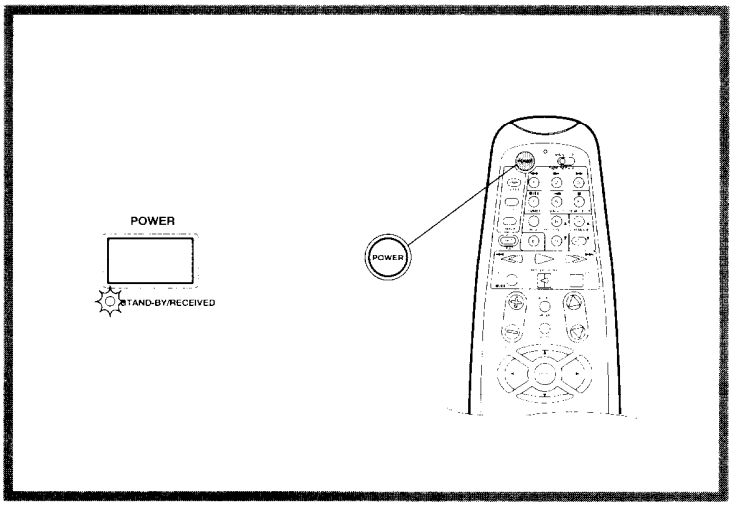
Sur. Mode: Indicates surround mode.



- The button pressed will be shown on the display. For FM or AM reception, the band and the frequency will also be shown.
- Confirm that the TAPE-2 MONITOR indicator is off when a source other than the TAPE-2 MONITOR has been selected. Also check the audio muting is off.
- Please refer to the operations from page 33 onward in order to play the selected source with Surround.

3. **Start the selected input source playing.**
   Follow the operating instructions of that unit.
4. **Adjust the volume to appropriate level using the MASTER VOLUME control knob or VOL △ (up)/ ▽ (down) button on the remote controller.**
   These controls set the volume of the Front Main, Center and Rear (Surround) speakers.
5. **Adjust the tone controls.**



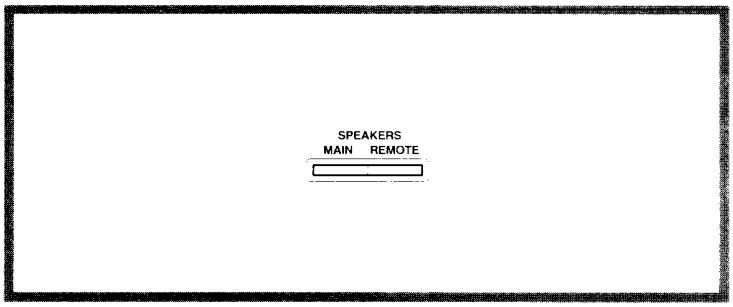


Power button and Stand-by/Received indicator

If your TX-SV636 is not a European model:
The STAND-BY/RECEIVED indicator lights up when the power cord connected to this unit is plugged into an AC wall outlet. This indicates that the unit is in Standby mode, ready for operation.
To turn on the unit fully, press the POWER button. The display will light up and the STAND-BY/RECEIVED indicator will go off.

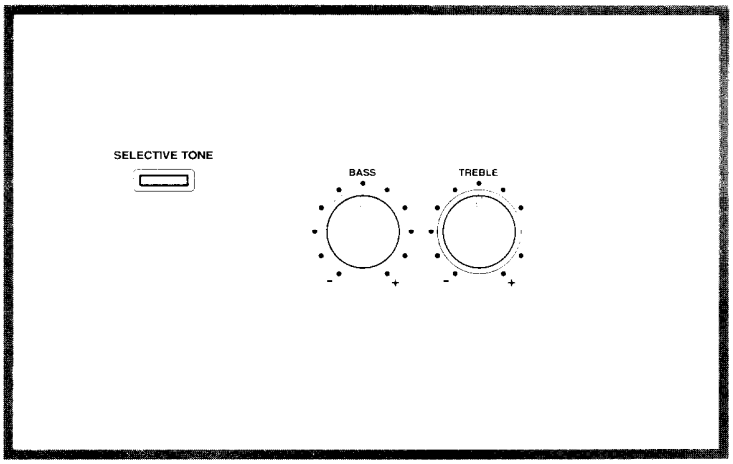
If your TX-SV636 is a European model:
Press the POWER button to turn on this unit. The display will light up. Press the POWER button on the remote controller to put this unit in Standby mode. The STAND-BY/RECEIVED indicator will light up.

The STAND-BY/RECEIVED indicator also flashes when a signal is received from the remote controller.



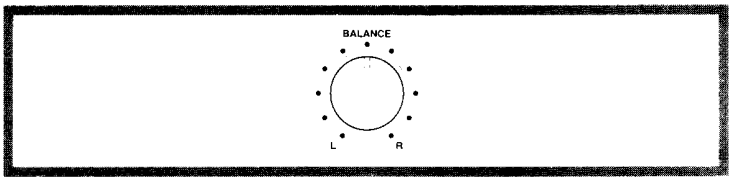
Speakers selector

MAIN: This button turns on or off the speakers connected to the FRONT MAIN, CENTER and REAR SPEAKERS terminals.
When the speakers are turned on, the MAIN indicator lights up.
REMOTE: This button turns on or off the speakers connected to the FRONT REMOTE SPEAKERS terminals.
When the speakers are turned on, the REMOTE indicator lights up.
Turn on these speakers when using multi source. (See pages 42 and 43.)



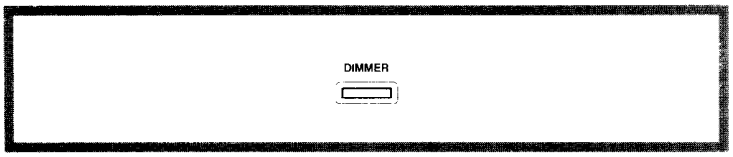
Adjusting the tone

Treble, Bass and Selective Tone are effective only for the Front Main speakers.
The best results are obtained from DOLBY PRO LOGIC Surround when the Center and Front speakers contain the same amounts of mid and high frequencies. As the Treble and Bass control do not affect the Center speaker, adjust the tone controls for the Front left and right speakers to match the sound given by the Center speaker. Because of this, we recommend the use of a good quality Center speaker.
BASS: Adjust to strengthen or weaken bass response.
TREBLE: Adjust to strengthen or weaken treble response.
SELECTIVE TONE: This control is used to clearly reproduce ultra low and high frequencies, and only affects the Front speakers. When this control button is pressed, the SELECTIVE TONE indicator lights up.



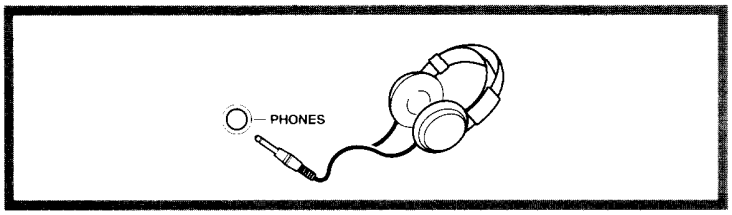
Adjusting the balance

The BALANCE control is used to control the relative volume levels of the Front Main speakers.



Dimmer button

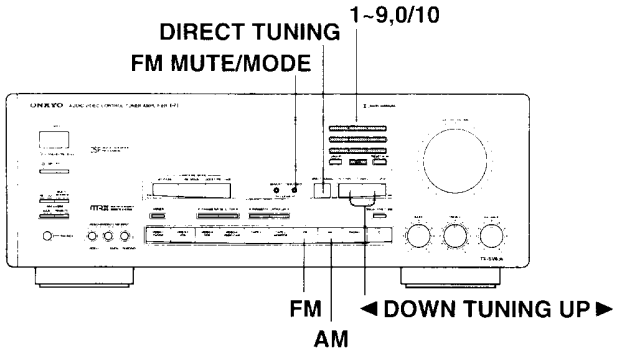
This button can be used to change the brightness of the display. The brightness changes in four steps: bright, medium, dim, off.

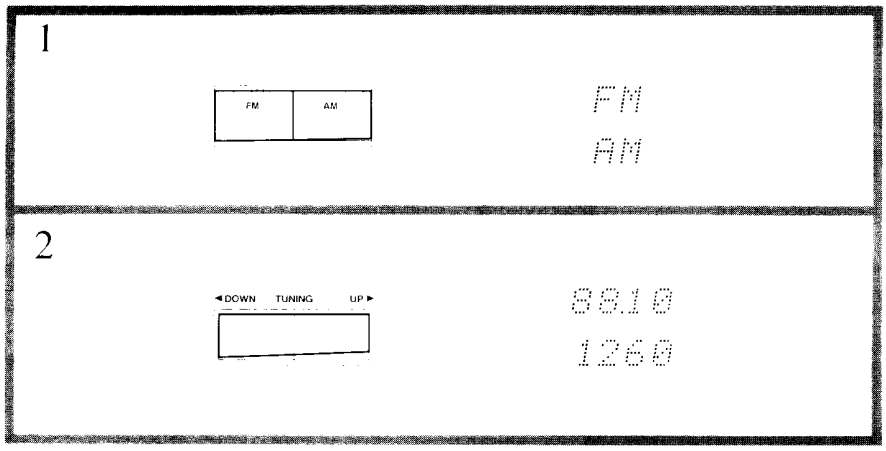


Using headphones

Stereo headphones with a standard binaural (stereo) plug can be connected to the PHONES jack. The sound heard through the headphones is the sound from the Front speakers, but may sound a little different to what was heard from the speakers (it may sound relatively far away).

Receiving stations

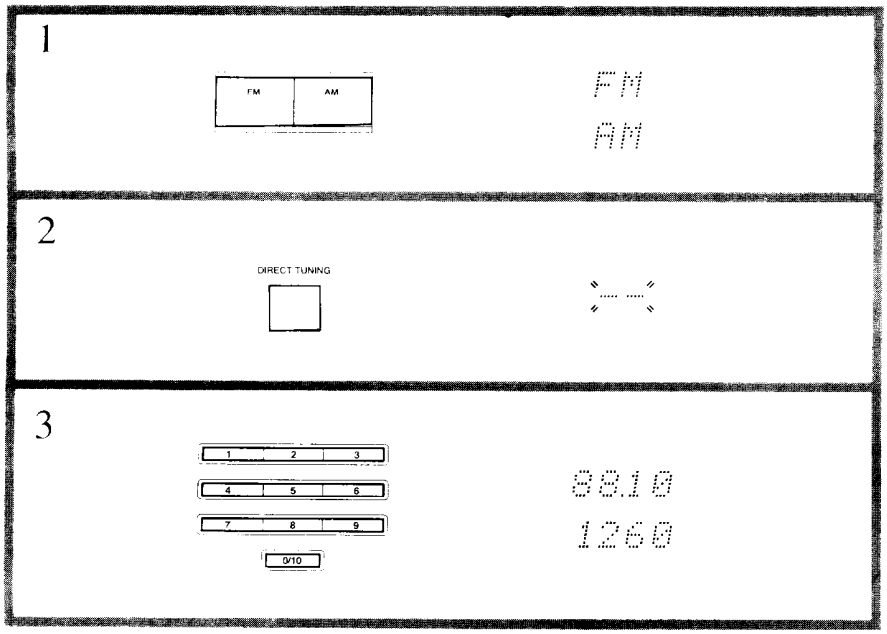




Manual tuning

1. **Press the FM or AM button.**
2. **Use the TUNING UP/DOWN buttons to change the frequency.**
   UP ..... the frequency increases.
   DOWN .... the frequency decreases.

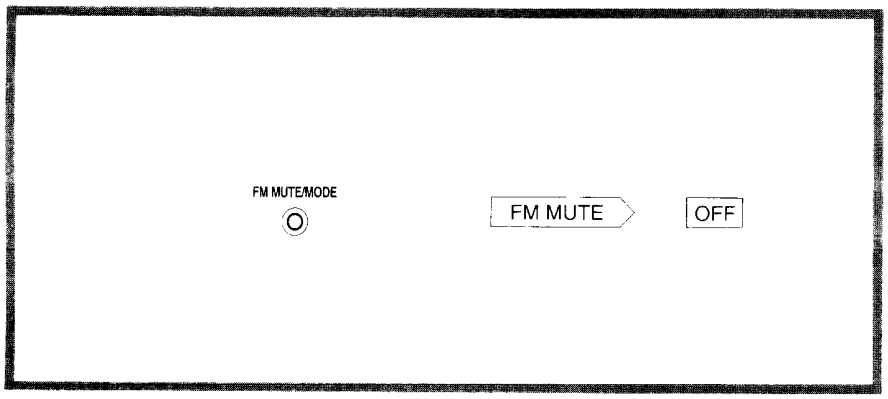
- The frequency is changed in 50kHz steps in FM and 10kHz (or 9kHz) in AM when the TUNING UP/DOWN button is pressed in single steps.
- In FM, if this button is held continuously for more than 0.5 seconds, the frequencies are scanned automatically (FM auto tuning mode). When a broadcast is received, scanning stops.



Direct tuning

1. **Press the FM or AM button.**
2. **Press the DIRECT TUNING button.**
   The "_ _" will flash 16 seconds in the frequency display.
3. **Enter the frequency with the number buttons while the cursor are flashing.**
   Example: 88.10MHz
   8 → 8 → 1 → 0/10
   Use the 0/10 number button to enter a 0.

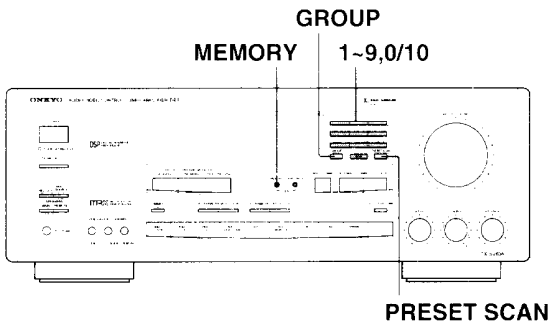
- If you enter a frequency that is out range, this unit will return to the previous frequency. If this happens, repeat the procedure.
- If you enter a frequency that does not have a station, this unit will automatically tune to the next station immediately below that station.
- When receiving AM broadcasts with a 10kHz steps, entering a number for the 10kHz digit will set the 1kHz digit automatically to 0.

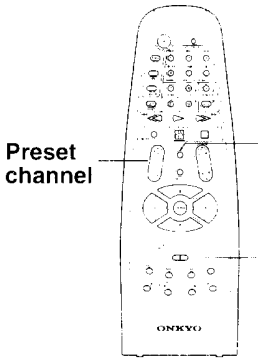


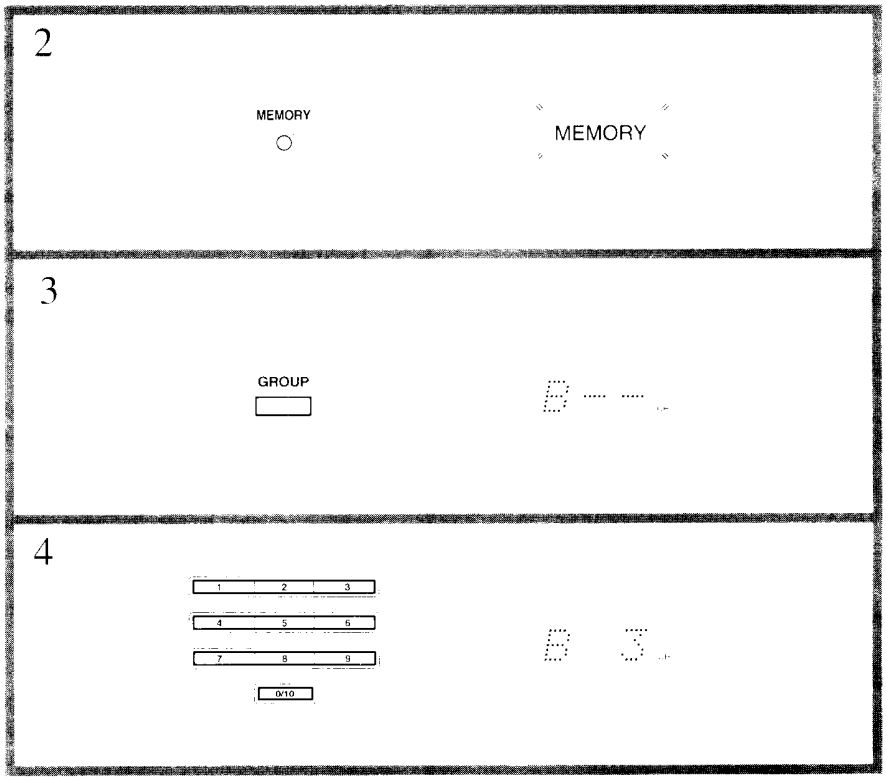
Listening to a stereo radio stations (FM mode)

If you tune in a stereo FM station, the STEREO indicator will be illuminated if the signal is sufficiently strong.
If the signal is weak, it may be impossible to tune in to your desired station. In this case, tune in as follows.
Press the FM MUTE/MODE button and FM MUTE OFF indicator lights. At this time, the station will be in mono and interstation noise will be heard. Select the station you want listen to.

Using preset stations



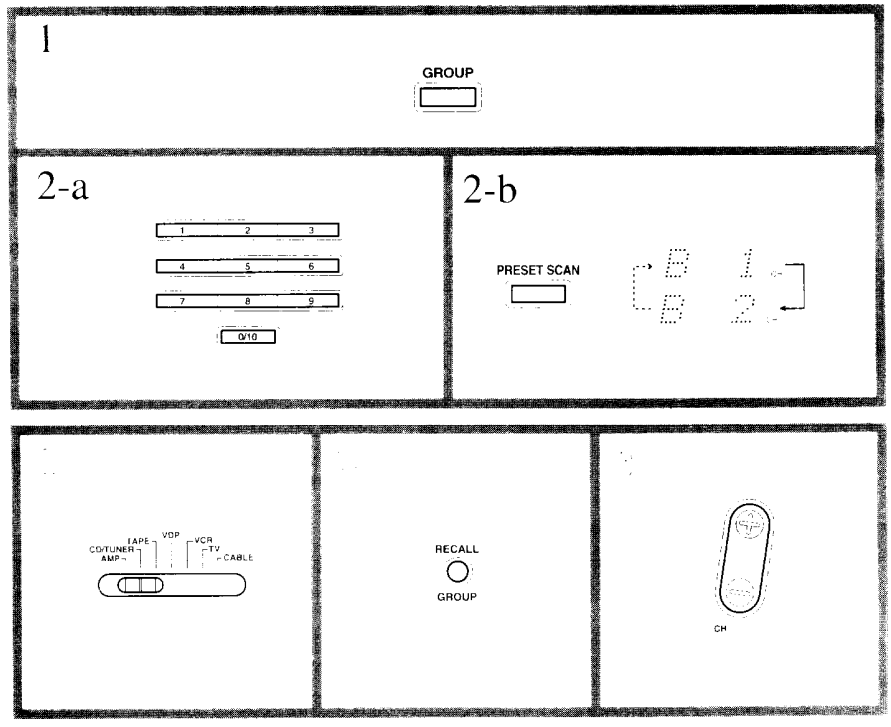




Programming radio stations

1. **Select the frequency that you want to store in the memory.**
   (See Receiving stations on page 24)
2. **Press the MEMORY button.**
   The MEMORY indicator will light for 8 seconds.
3. **While the MEMORY indicator lights, press the GROUP button to choose the desired group.**
   The group shown on the display changes in the following order each time the button is pressed: A → B → C → A
4. **Select the desired memory number using the number buttons.**
   Use the 0/10 number button to enter a 10.

- Since ten AM or FM stations can be stored in each group (A, B or C), a total of 30 stations can be stored in the memory.
- If the FM station received is an RDS station with a PS (Program Service Name), the frequency display will change to the PS display. If there is no PS, the frequency display will not change. Refer to page 27 for the RDS function.
  (RDS function is only for features of European model.)



Recalling preset stations

1. **Press the GROUP button to select the desired group.**

2-a. **Input the memory number you wish to receive by using the number buttons.**

2-b. **Press the PRESET SCAN (or SCAN) button.**
Each station stored in the group chosen in step 1 will be received for 5 seconds (for each station).
When the station that you want is found, press the PRESET SCAN (or SCAN) button again and scanning will stop.

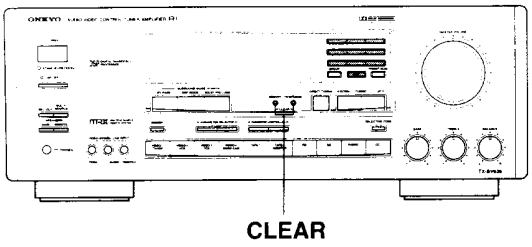
Use Remote controller

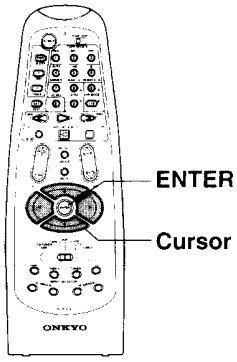
Set the device selector switch to the CD/TUNER position.

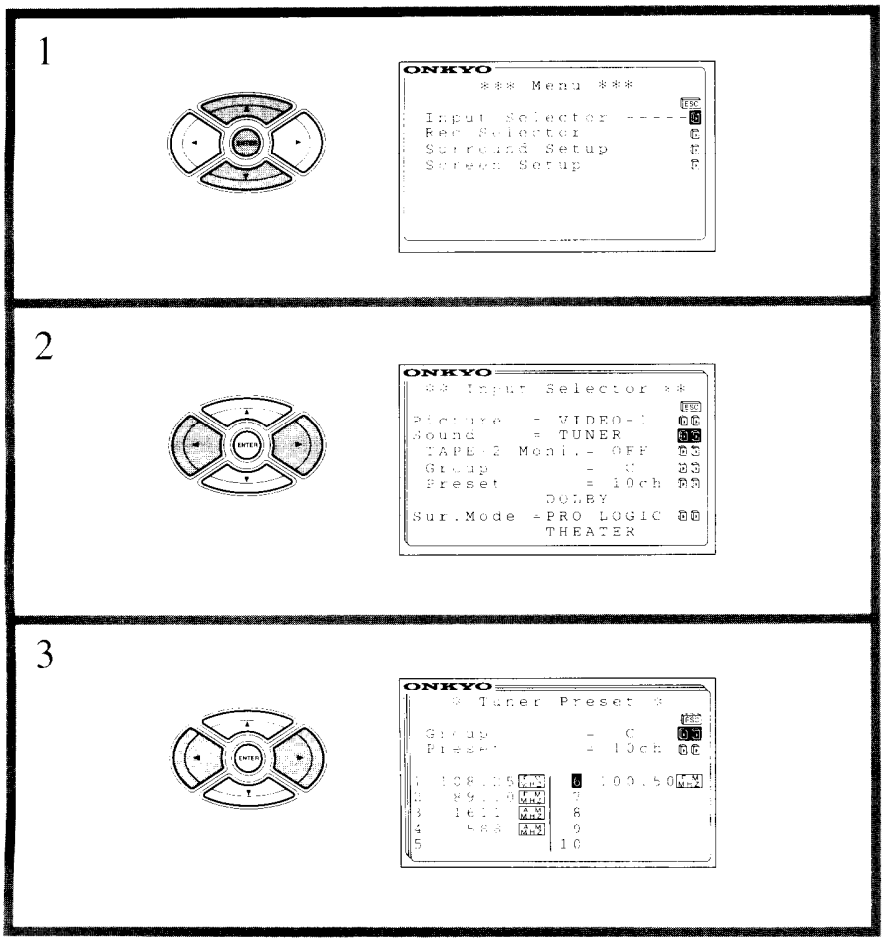
Press the GROUP button and choose the group.

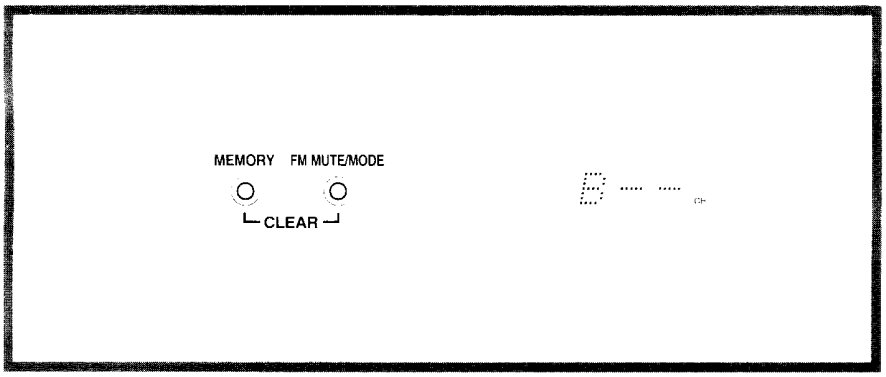
Press the CH (up) or (down) button.
After the last number of GROUP C is reached, scanning will restart at GROUP A.

Using preset stations









On-screen

1. **Press the ENTER button and the Menu screen is displayed.**
   Move the cursor to Input Selector using ▲ or ▼ cursor button and press the ENTER button.
2. **Move the cursor to Sound and press the ◄ or ► cursor button to select TUNER.**
3. **Select the desired Group and Preset channel using the ◄ or ► cursor button.**

Group

Indicates the current group of the Tuner Preset memory (A to C). Pressing the ◄ or ► cursor button will change the group. When the group is changed, the number shown below the new group will indicate the last channel that was selected for that group. If there are no channels set on that group at all, that group will be skipped entirely.

Preset

Indicates the channel preset for the selected group of the Tuner. Pressing the ◄ cursor button will change the channel downward, and pressing the ► cursor button will change the channel upward.

- If no preset channels are set in any group, the group and preset indications will not change, as there are no presets to select.

Cancelling preset stations

1. **Select the station as explained in the previous section.**
2. **Press the FM MUTE/MODE button while holding down the MEMORY button. " _ _" will be shown on the channel display.**

- Once the preset station has been cancelled, the memory location can be used to store another station.

Receiving RDS (European models only)

RDS reception is only available on the European model, and only in areas where RDS broadcasts are available.

What is RDS?

Many FM stations now transmit RDS signals which give additional information. RDS provides you with various services so that (for example) you can choose a station broadcasting your favorite categories of music, or other information. Refer to the right column.

PS: Program Service Name

When an RDS station broadcasting PS information is received, the name of the station will be displayed instead of the frequency.

PTY: Program Type

When an RDS station broadcasting PTY information is received, the type (category) of the broadcast will be displayed.

TP: Traffic Program

When an RDS station broadcasting TP information is received, the traffic information will be displayed.

RT: Radio Text

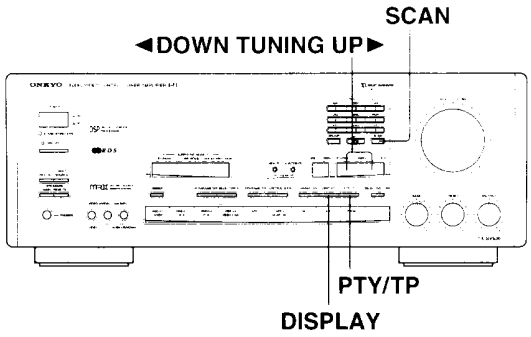
When an RDS station broadcasting RT information is received, the information received from the station will be shown on the display.

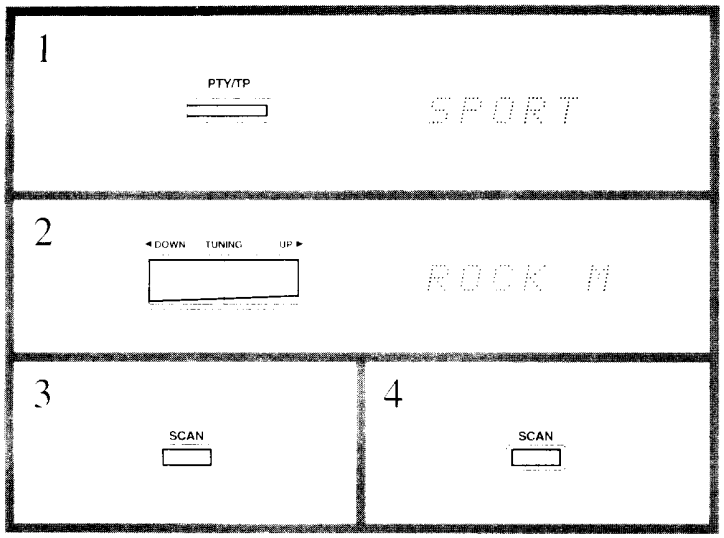
NOTE:

In some cases, the characters displayed on the display of the TX-SV636 may not be exactly the same as the ones broadcast by the radio station. If strange characters appear in the display, it is because characters are being received that cannot be correctly displayed by the TX-SV636. They do not indicate a malfunction of the unit.

PTY Classifications in Europe

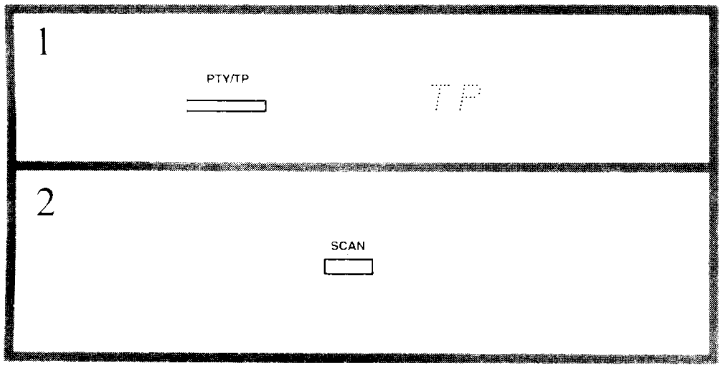
0	NONE	**None**	No program type.
1	NEWS	**News reports**	Reports on current events and happening.
2	AFFAIRS	**Current affairs**	Topical reporting of current affairs, often with a wider range of topics than news reports.
3	INFO	**Information**	General information such as whether forecasts, consumer affairs, medical help etc.
4	SPORT	**Sport**	Live sports action, sports news and interviews.
5	EDUCATE	**Education**	Formal educational programs.
6	DRAMA	**Drama**	Radio plays and serials.
7	CULTURE	**Culture**	Cultural programs (including religious affairs).
8	SCIENCE	**Science and technology**	Programs about the natural sciences and technology.
9	VARIED	**Varied**	Speech based programs not covered by the above categories e.g. quizzes, panel games, comedy, etc.
10	POP M	**Pop music**	Popular commercial music, usually included in past or present sales charts.
11	ROCK M	**Rock music**	Popular music with a more specialist appeal, often not included in sales charts.
12	M.O.R. M	**Middle of the road music**	Easy listening music as opposed to Pop, Rock or Classical.
13	LIGHT M	**Light classics**	Classical music for general rather than specialist appreciation.
14	CLASSICS	**Serious classics**	Performances of major orchestral works, symphonies, chamber music etc. and including Grand Opera.
15	OTHER M	**Other music**	Music styles not covered by the above categories, e.g. Jazz, Rhythm & Blues, Folk, Country, Reggae.





Searching for a station which broadcasts your favorite category (PTY scan)

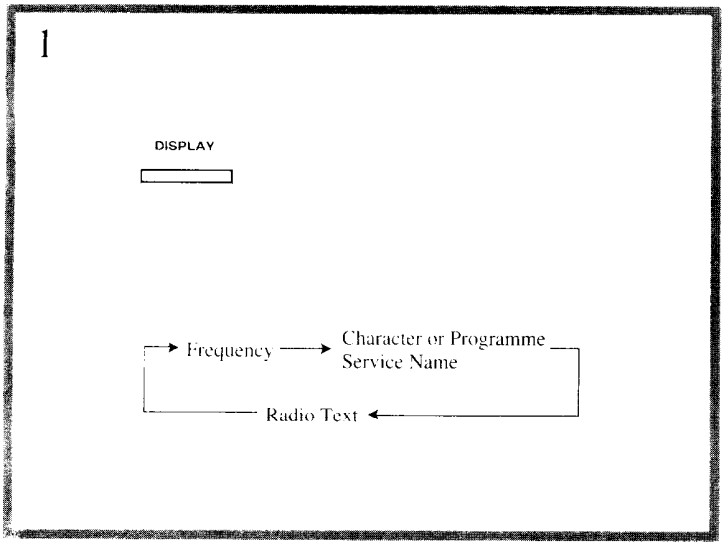
1. **Press the PTY/TP button, and the program type of the currently selected station will be shown on the display (for example, "SPORT").**
   If the station you are receiving is not broadcasting RDS, "NOT RDS" (this is not an RDS station) will be shown on the display.
2. **Use the TUNING UP/DOWN buttons to select another program type (PTY) (for example, "ROCK M").**
   See the PTY descriptions on the previous page.
3. **Press the SCAN button to start searching for the chosen PTY station.**
   When a station is received with the desired PTY, the scanning stops for approximately 5 seconds, before the unit starts scanning again.
4. **When the desired station is reached, press SCAN button again to stop scanning.**



Receiving RDS traffic information

If the station you are listening to is not an RDS station, this function cannot be used.

1. **Press the PTY/TP button until "TP" appears on the display.**
   If "TP" is shown on the display, it indicates that the current station is broadcasting traffic information.
2. **Press the SCAN button to start searching for a TP station.**
   When the unit receives a TP station, it stops scanning. If the unit cannot receive any signal, "NOT FIND" (cannot find the station) is shown on the display.



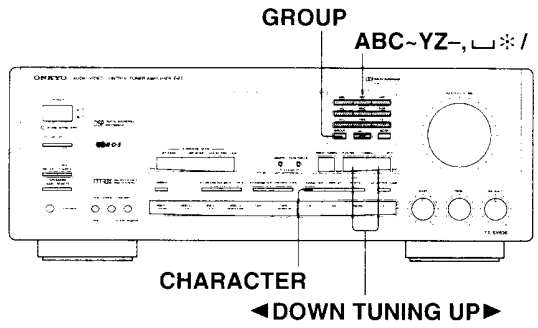
Displaying radio text (RT)

If the station you are listening to is not an RDS station, this function cannot be used.

1. **Each time you press the DISPLAY button, the display changes as shown in the left.**

If the current station you are listening to is not an RDS station, only the frequency of the station or the station name, if you have entered it (see page 29) appears. (If there have been no characters entered, only the frequency is shown.) When RT is received, it can sometimes take between a few seconds and 15 seconds (more or less) to show RT on the display.
Sometimes the following messages will be shown on the display.
WAIT: indicates that it requires more time to receive the RT information. When the information is received, the characters will scroll across the display.
NO TEXT: this appears for 3 seconds and indicates that even though an RDS station is being received, there is no RT information included.

Entering station names (European models only)

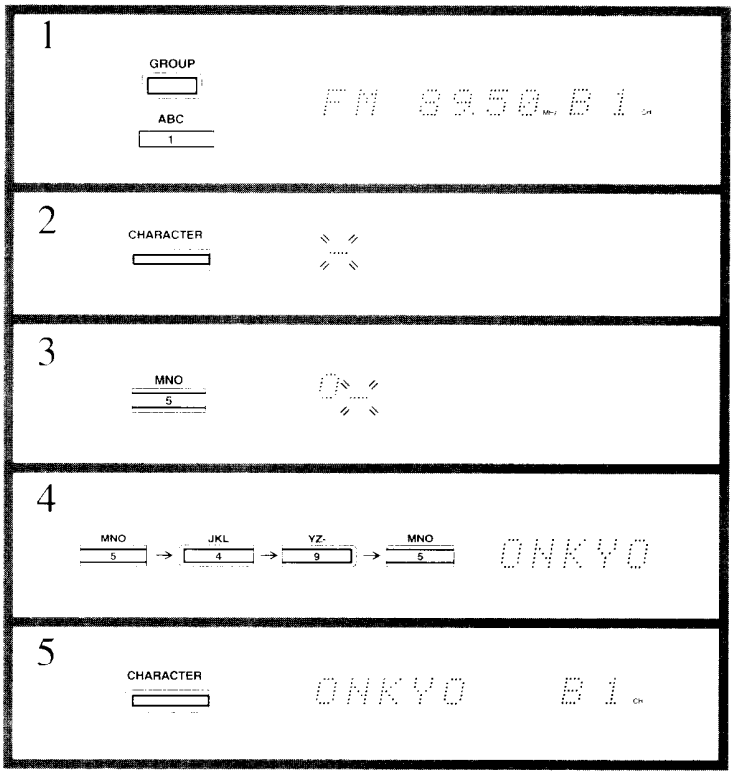


Characters can be entered during reception of an AM or FM broadcast station.
This function enables you to memorize a maximum of 8 characters consisting of letters, some symbols and numbers, for instance, representing broadcasting names, for each preset station.
If you attempt to enter characters while receiving an FM broadcast RDS station, "RDS...PS" is displayed and characters cannot be entered.

Characters which can be input

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 0 – _ ✻ /

Note: _ indicates a space.



Entering new characters

To name 1 CH of GROUP B as "ONKYO", for example, operate as follows. (Example: FM broadcast at 89.50 MHz has been memorized into 1 CH of GROUP B).

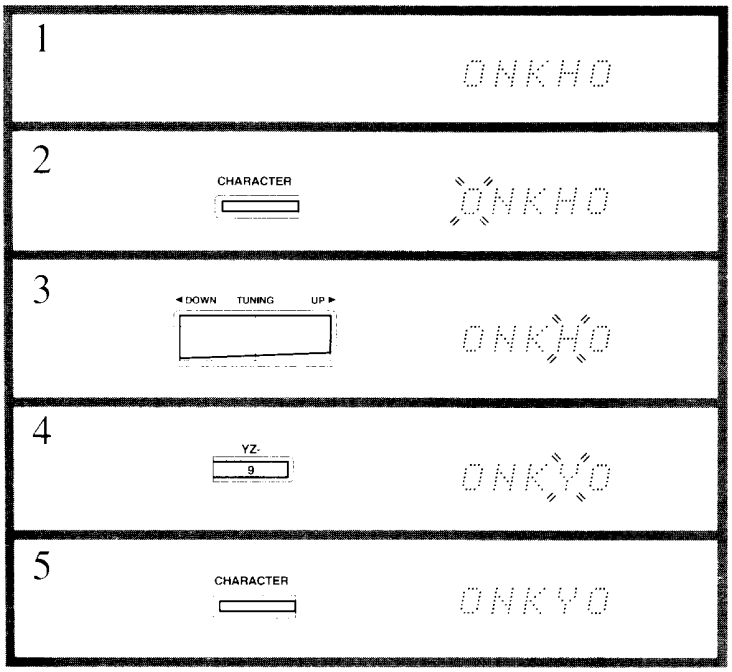
1. **Press the GROUP button until "B" letter appears on the display, then press the number of "1" button.**
   The memorized broadcast station is received.
2. **Press the CHARACTER button.**
   The frequency in the display goes off and "_" flashes.
3. **To enter O from "ONKYO", press the 5/MNO button.**
   Pressing the button each time changes the character from 5 to M, N, and O, one at a time. Select "O".

   → 5 → M → N → O →

- "_" will move to the next character. (If you do not press the number button for one second or more, "_" will automatically move to the next character.)

4. **To enter "N" "K" "Y" "O" letter.**
   To enter N from "ONKYO", press the 5/MNO button and select "N". Then, to enter K from "ONKYO", press the 4/JKL button and select "K".
   Proceed in a similar way to enter the remaining letters.
5. **Press the CHARACTER button once again to complete the operation.**

- If you have not pressed a button for 16 seconds, the operation will complete automatically.
- Press the DISPLAY button when you wish to check the frequency while you are entering the characters.



Changing existing characters

1. **Select the station whose name you wish to change. (See the previous sections.)**
2. **Press the CHARACTER button.**
   "_" appears at the first character and it flashes alternately with the character.
3. **Press the TUNING UP/DOWN button and move "_" to the character you want to change.**
   "_" moves to the right when pressing the UP ► button and moves to the left when pressing the ◄ DOWN button.
4. **Enter the desired character.**
   The previous character is replaced with a new character.

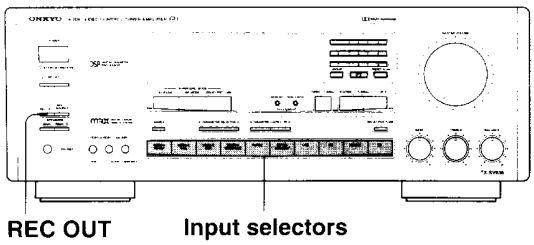
- When you want to delete a character, press the DIRECT TUNING button. The character is deleted, and the characters on the right move to the left by one space.

5. **Press the CHARACTER button to store the character.**

Clearing all of the characters stored in memory

1. **Press the CHARACTER button.**
2. **While pressing the MEMORY button, press the FM MUTE/MODE button.**
   All the characters entered for this station will be cleared.

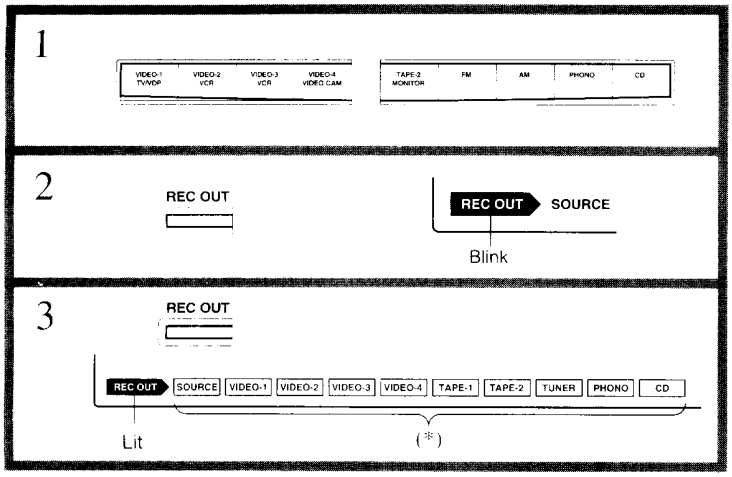
Recording a source

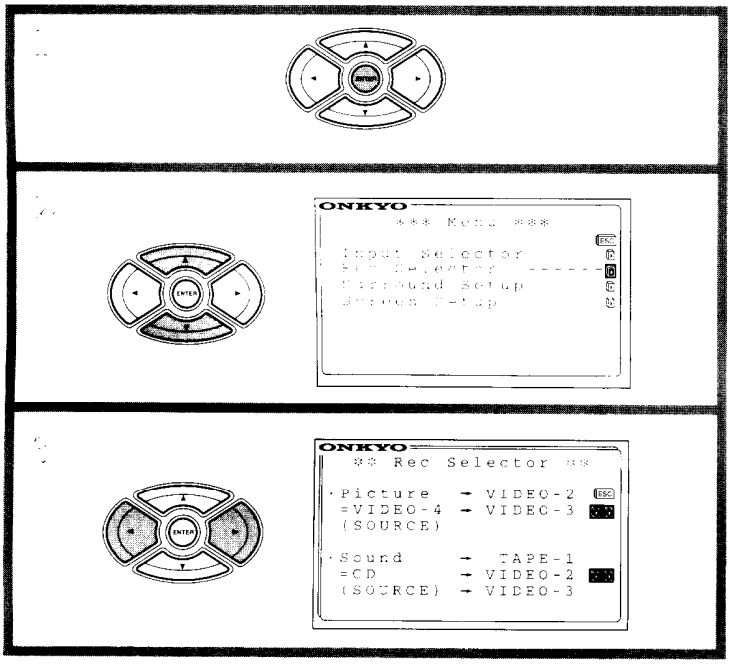


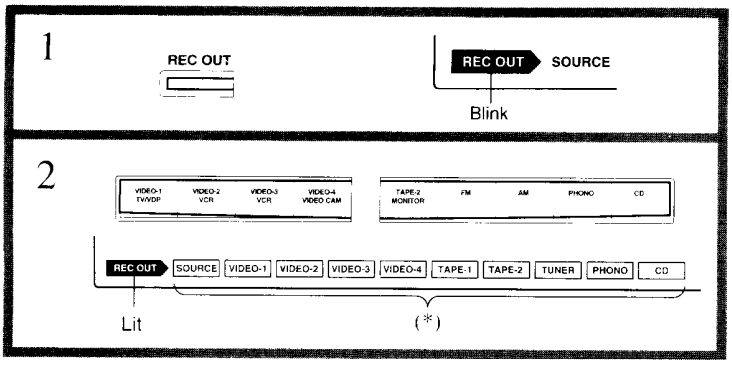
Recording an audio source

With this unit you can perform recording while listening to the sound of another source through speakers or headphones. Make all connections between the tape deck and the unit as shown in the Audio equipment connections diagram (page 11).

When recording a tape while the Multiple Room Remote Control is connected, press the MR OFF button (the MR OFF indicator will light) to disable remote control operation from another rooms.







Recording and dubbing to a tape deck connected to TAPE-1

When recording the same source you are listening to:

1. **Press the input selector button (other than TAPE-1) to select the source to be recorded.**
2. **Press the REC OUT button.**
3. **Press the REC OUT button again while the REC OUT indicator is flashing.**
   The SOURCE and the source you have chosen will be displayed in red boxes. (*)
4. **Start the device selected in step 1 while setting the tape deck connected to TAPE-1 to recording mode.**

Use on-screen

Press the ENTER button.

Select the Rec Selector screen from the Menu screen useing ▲ or ▼ cursor button, and press the ENTER button.

Select the desired SOURCE using the ◄ and ► cursor buttons.

Picture, Sound:

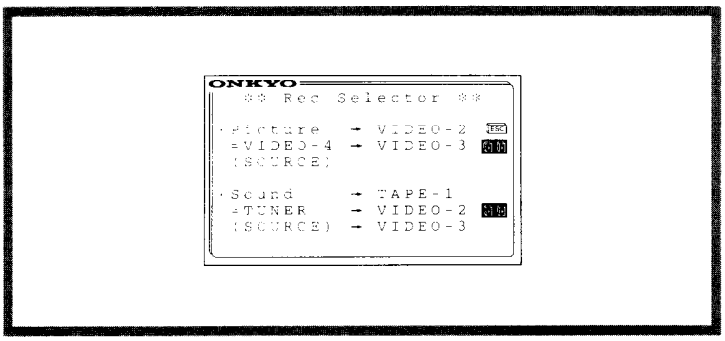
Indicates which picture and sound sources can be recorded, and which devices can be used to record onto. Press the ◄ or ► cursor button to select a recording source or picture.

For example (See the diagram on the left.)
The recording source for the Picture is VIDEO-4, and this source can be recorded to VIDEO-2 or VIDEO-3.
The recording source for the sound is CD, and this source can be recorded to the device connected to TAPE-1, VIDEO-2 or VIDEO-3.

- Never change the positions of any controls on this unit during recording and dubbing operations.
- Pressing the input selector button during recording will change the source being recorded.
- When the TAPE-2 MONITOR indicator is on, only TAPE-2 can be recorded and if the input selector is changed, the TAPE-2 MONITOR indicator will not change.

When recording a source different from the one you are listening to:

1. **Press the REC OUT button.**
2. **Press the input selector button (other than TAPE-1) for the source to be recorded, while the REC OUT indicator is flashing.**
   The chosen source will be displayed in a red box. (*)
3. **Start the device selected in step 2, and start recording on the tape deck connected to TAPE-1, or on any recording device connected to the VIDEO-2 or VIDEO-3 audio output jacks.**



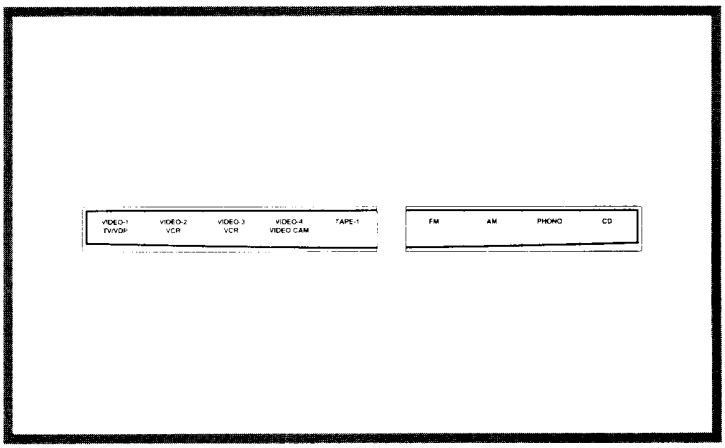
On-screen

Press the ENTER button.

Select the Rec Selector from the Menu screen using ▲ or ▼ cursor button, and press the ENTER button.

Press the ◄ or ► cursor button to select the source to be recorded.

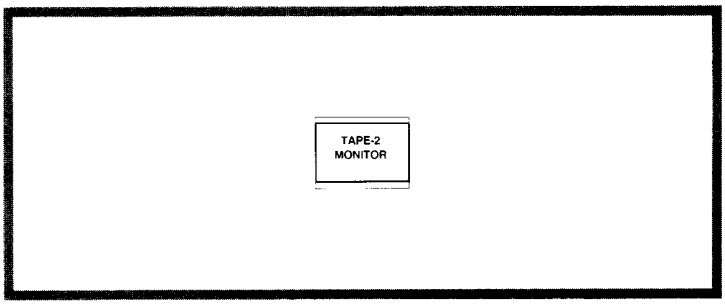
- The source you selected to record will be output form the TAPE-1, VIDEO-2 and VIDEO-3 REC OUT jacks. The source you are listening to does not change.
- If you choose to record from FM or AM while listening to another source, the tuner's frequency and group displays will be shown for 3 seconds.



Recording and dubbing to a tape deck connected to TAPE-2

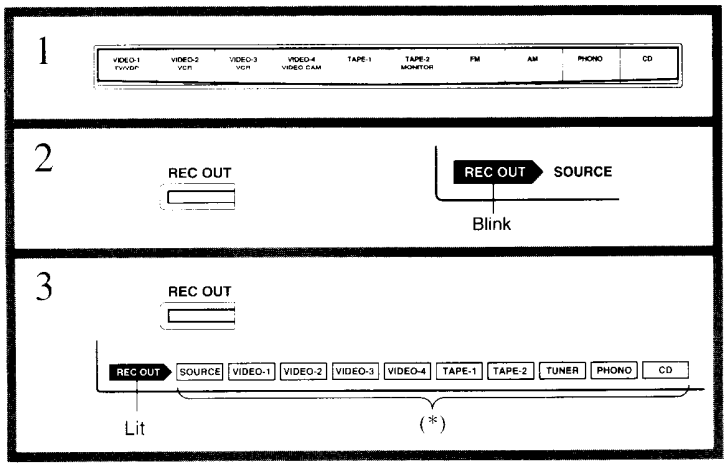
1. **Press the input selector button (other than TAPE-2) of the source to be recorded.**
2. **Start playing back the device selected in step 1, and start recording on the tape deck connected to TAPE-2.**

- When the TAPE-2 MONITOR is off, any source signals can be monitored through the speakers or the headphones (this is normal operation).
- If tape deck 2 has three heads, the signal just recorded can be monitored (when the TAPE-2 MONITOR is turned on). Refer to the tape deck instruction manuals for more details.
- Set the recording level using the controls on the tape deck used for recording.



Using the graphic equalizer

1. **Connect the graphic equalizer to the TAPE-2 jacks on the rear panel.**
2. **If a second tape deck is used, connect it to the tape jacks on the graphic equalizer.**
3. **Press the TAPE-2 MONITOR button.**
   The TAPE-2 MONITOR indicator will light.
   Follow the graphic equalizer operation instructions.
   To record an equalized signal, use the tape deck (connect to the equalizer) for recording.



VCR recording

Date can be recorded from video-disc players, video cassette recorders connected to VIDEO-2, and/or VIDEO-3 jacks. Refer to each instruction manual for information concerning video-disc players, video camcorders, video cassette recorders and monitor TV.

Recording to VIDEO-2 and VIDEO-3

Recording the source being played:

1. **Select the source to be recorded with the input selector buttons.**
2. **Press the REC OUT button.**
3. **Press the REC OUT button again while the REC OUT indicator is flashing.**
   The SOURCE and the source you have chosen will be displayed in red boxes. (*)
4. **Start the source selected in step 1, and start recording on the VCR connected to VIDEO-2 and/or VIDEO-3.**

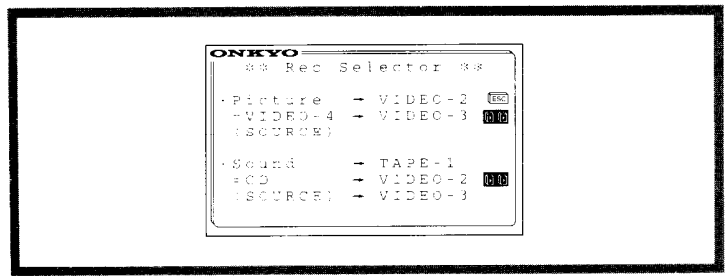
On-screen

Press the ENTER button.

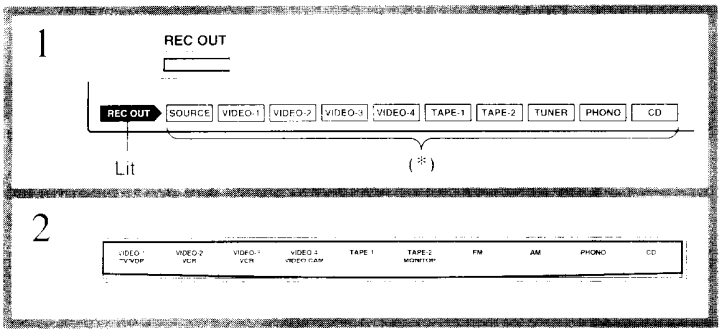
Select the Rec Selector from the Menu screen using ▲ or ▼ cursor button, and press the ENTER button.

Press the ◄ or ► cursor button to select SOURCE.

Follow the instruction "Picture, Sound" of "Use on Screen :" on page 30 for selection.

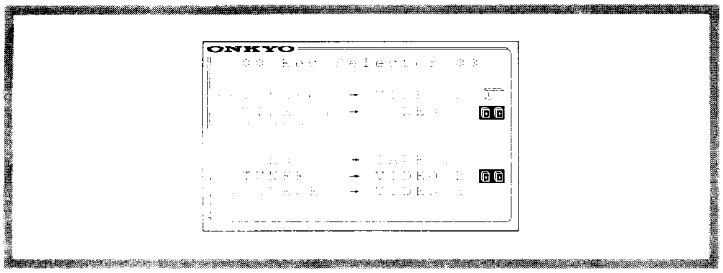


Recording a source



Recording a source different from the one being played:

1. **Press the REC OUT button.**
2. **Press the input selector button of the source to be recorded while the REC OUT indicator is flashing.**
   The chosen source will be displayed in a red box. (*)
3. **Start the source selected in step 2, and start recording on the VCR connected to VIDEO-3.**



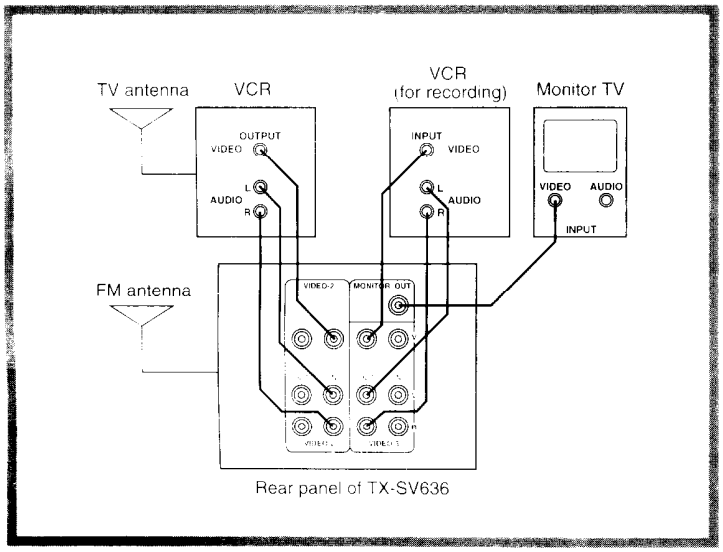
On-screen

Press the ENTER button.

Select the Rec Selector from the Menu screen using ▲ or ▼ cursor button, and press the ENTER button.

Press the ◄ or ► cursor button to select SOURCE.

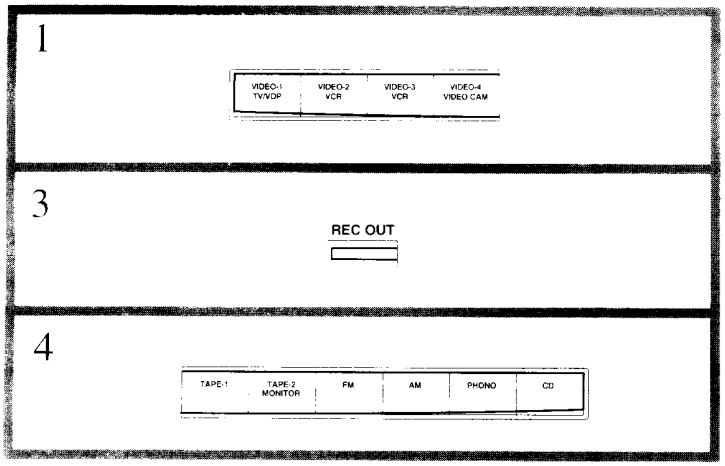
Follow the instruction "Picture, Sound" of "Use on Screen " on page 30 for selection.



Playback and recording of TV picture and FM/Cable TV sound

Recording of a TV broadcast and FM broadcast (simulcast) is possible when two VCR are used.

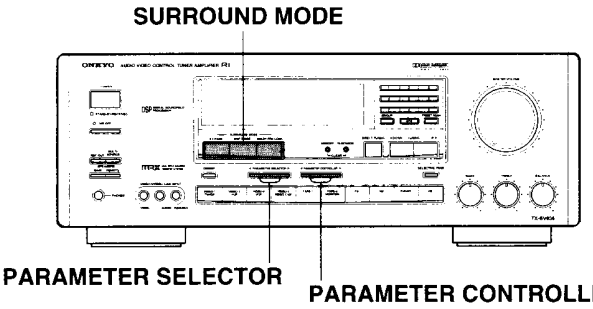
1. **Receive the TV broadcast using the VCR tuner.**
2. **Press the VIDEO-2 or VIDEO-3 input selector to set the picture to VIDEO-2 or VIDEO-3.**
3. **Press the FM button of input selector and tune in the FM simulcast using a TUNING UP/DOWN button or the CH (up)/ (down) button on the remote controller.**
   The picture will be sent to the monitor TV and the FM stereo sound to the speakers connected to this unit.
4. **To record the TV picture with FM sound, receive the TV broadcast using one VCR (connected to VIDEO-2 (or VIDEO-3)) and begin recording on the other VCR (connected to VIDEO-3 (or VIDEO-2)).**
   The program can be monitored during recording.

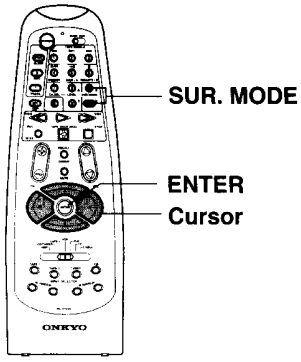


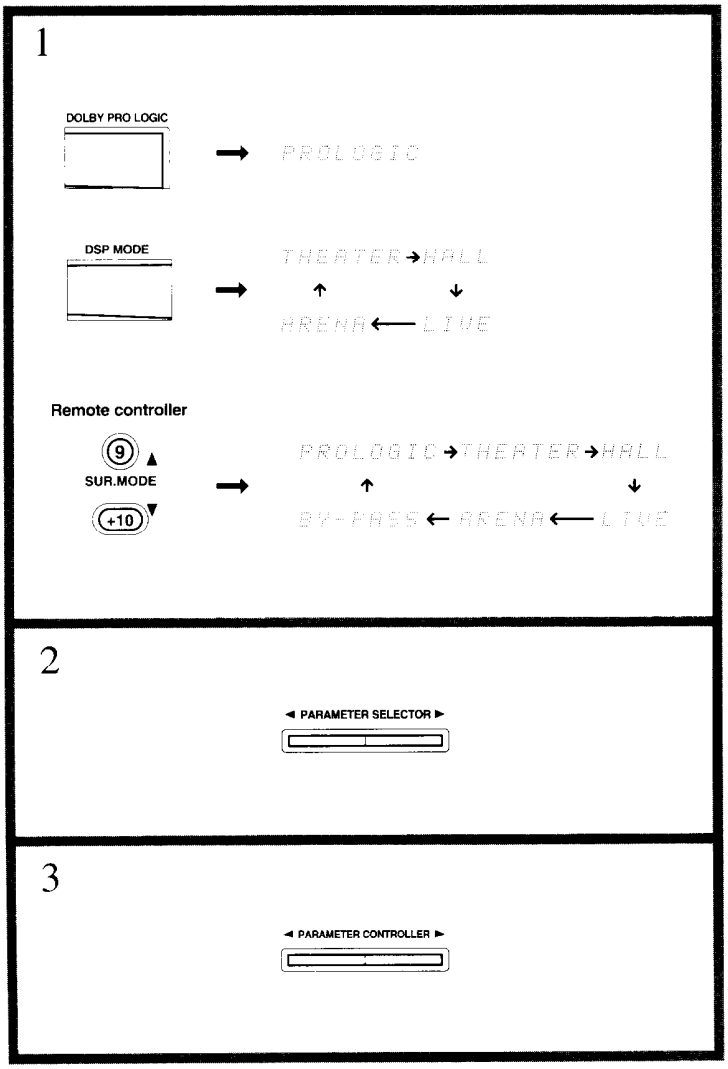
Mixing video and audio for VCR recording

1. **Press the input selector button to select the VCR (VIDEO-1, 2 , 3 or 4) that will be used to play the video.**
2. **Press the REC/PAUSE button on the VCR (VIDEO-2 or 3) that will be doing the recording.**
3. **Press the REC OUT button.**
4. **Press the input selector button (CD, PHONO, FM, AM, TAPE-1, or TAPE-2) that will provide the audio source.**
   Only the audio will be changed.
5. **Start operation of the equipment.**
   The picture will be recorded from the video source, and the sound from the audio source.

Basic operation of Surround play







Although full details of each Surround mode will be explained on page 34, please be sure to understand the following basic operation first.

Operating Surround

1. **Press the DOLBY PRO LOGIC button to select Dolby Pro Logic surround mode.**
   Press the DSP MODE button to select Theater, Hall, Live or Arena surround mode.
   Using the remote controller, set the Device select switch to AMP, then press the SUR. MODE ▲ or ▼ button to select surround mode.
   - Each time the button is pressed the mode changes as pictured and is shown in the display section.
   - Each mode has a number of details (parameters) which affect the sound of the mode.
2. **Press the PARAMETER SELECTOR ◄ or ► button to select the parameter you want to change.**
   - Displayed in the display section for 5 seconds.
   - If the display goes out, you can press the PARAMETER SELECTOR button again.
   - The particular parameters change depending on which Surround mode you are in. (See page 34)
3. **Use the PARAMETER CONTROLLER ◄ or ► button to select a value for the parameter.**
   - Adjust the parameter by repeating steps 2 and 3, and referring to the parameter selector list.
   - The adjusted parameter is stored in the memory for the surround mode you set it in.
   - When you are not playing in surround: press the BY-PASS button on the main unit or press the SUR. MODE ▲ or ▼ button on the remote control to select BY-PASS.
   - When using the multi-source, the surround mode will be turned off.
   - Refer to page 35 using the on screen display.

Use of surround mode

This unit is provided with 5 kinds of Surround modes. Select a mode by pressing the DOLBY PRO LOGIC button, DSP MODE button or BY-PASS button. When using the remote control, press the SUR. MODE ▲ or ▼ button. Make your choice of modes depending on the type of music you are listening to, the media used, and your personal preference.

Surround Modes

DOLBY PRO LOGIC
By using video tape and laser discs with the Dolby Surround trade mark. You can decode four channel surround sound.

THEATER
There are many surround speakers in an actual theater. Use this mode for creating a theater atmosphere. This mode is suitable for playback of media recorded with Dolby Surround.

HALL
Simulates the atmosphere of a concert hall. Intended for classical music.

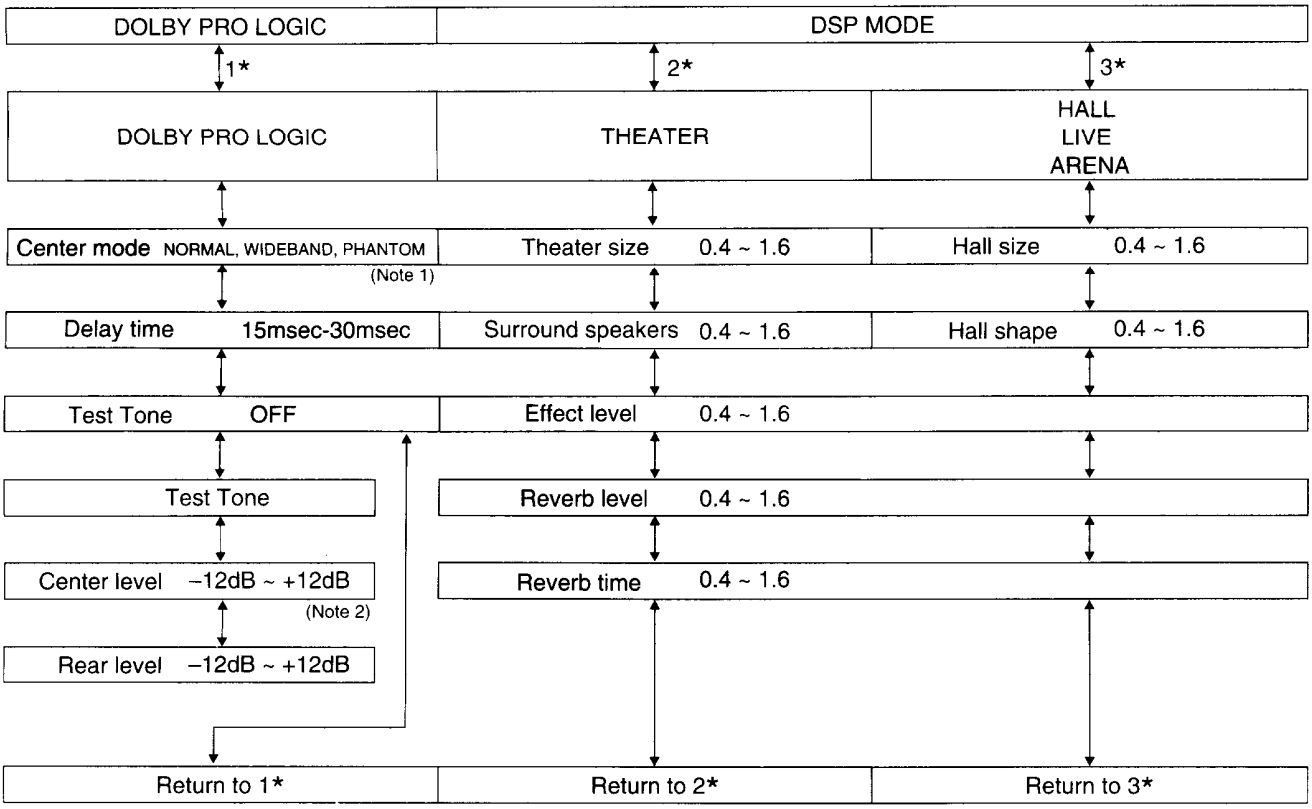
BY-PASS
This is the mode used when you do not wish to use the surround mode. All input sound is output from the front speakers directly.

ARENA
This mode recreates the feel of listening to a pop concert in a domed stadium.

LIVE
Reproduces the feeling of a live performance.

Parameter selector

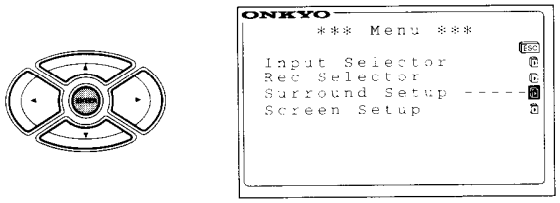
This chart shows how the display changes when the PARAMETER SELECTOR buttons are pressed. Pressing the PARAMETER SELECTOR ◄ button goes to the upper items and pressing the ► button goes to the lower items. Pressing the PARAMETER CONTROLLER button in each display can change the value and condition of whichever parameter is displayed.



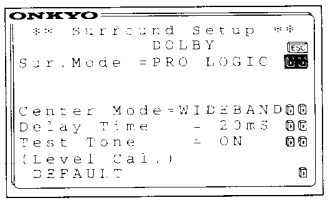
NOTES:

1. The Center mode does not have an independent value and position in each Surround mode. However, each of the other items have independent value and position in each Surround mode.
2. This item is not available when Center mode is set to PHANTOM.

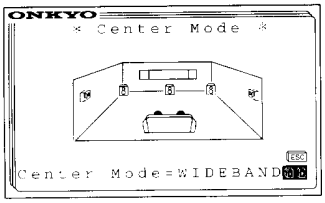
1



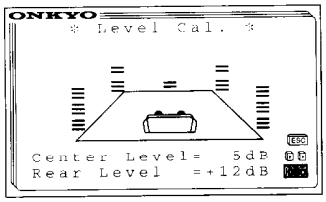
2



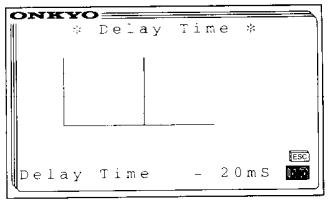
3



4



5



Setting the surround parameters using on screen

- Press the ▲ or ▼ cursor buttons to select the item you wish to change.
- Press the ◄ or ► cursor button to change the value.
- Use the ▲ or ▼ cursor button to select ESC and press the ENTER button to go back to the previous screen.
- Some items allows you to select values visually by looking at the sub screen.

Setting the Dolby Pro Logic surround parameters:

1. **Press the ENTER button to enter the Menu screen.**
   Move the cursor to Surround Setup using ▲ or ▼ cursor button and press the ENTER or ► cursor button.
   Surround Setup menu for setting the surround parameters is displayed.
2. **Choose the surround mode. (See page 34)**
   Move the cursor to Sur. Mode using ▲ or ▼ cursor button and press the ◄ or ► cursor button to select surround mode.

   → DOLBY PRO LOGIC ↔ THEATER ↔ HALL ←
   → BY-PASS ↔ ARENA ↔ LIVE ←

3. **Choose the center mode according to the size of the speakers. (See page 37)**
   Move the cursor to Center Mode using ◄ or ► cursor button and press the ◄ or ► cursor button to select the center mode.

   → NORMAL ↔ WIDEBAND ↔ PHANTOM ←

4. **Use the test tone to adjust the level of the speakers. (See page 38)**
   Move the cursor to Test Tone (Level Cal.) using ▲ or ▼ cursor button and press the ◄ or ► cursor button to choose the type of test tone.

   Center Level

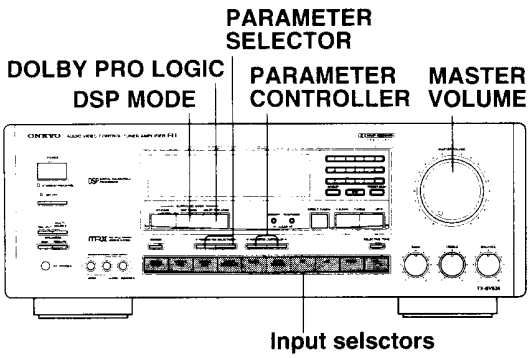
   Adjust the level of the center speaker.
   Move the cursor to Center Level using ▲ or ▼ cursor button and press the ◄ or ► cursor button to adjust the level.

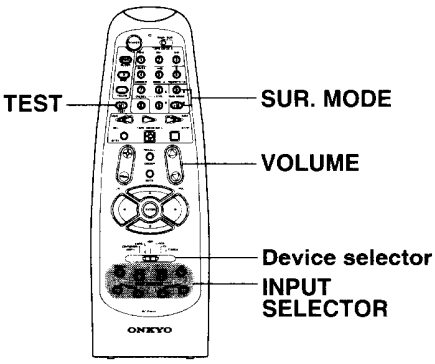
   Rear Level

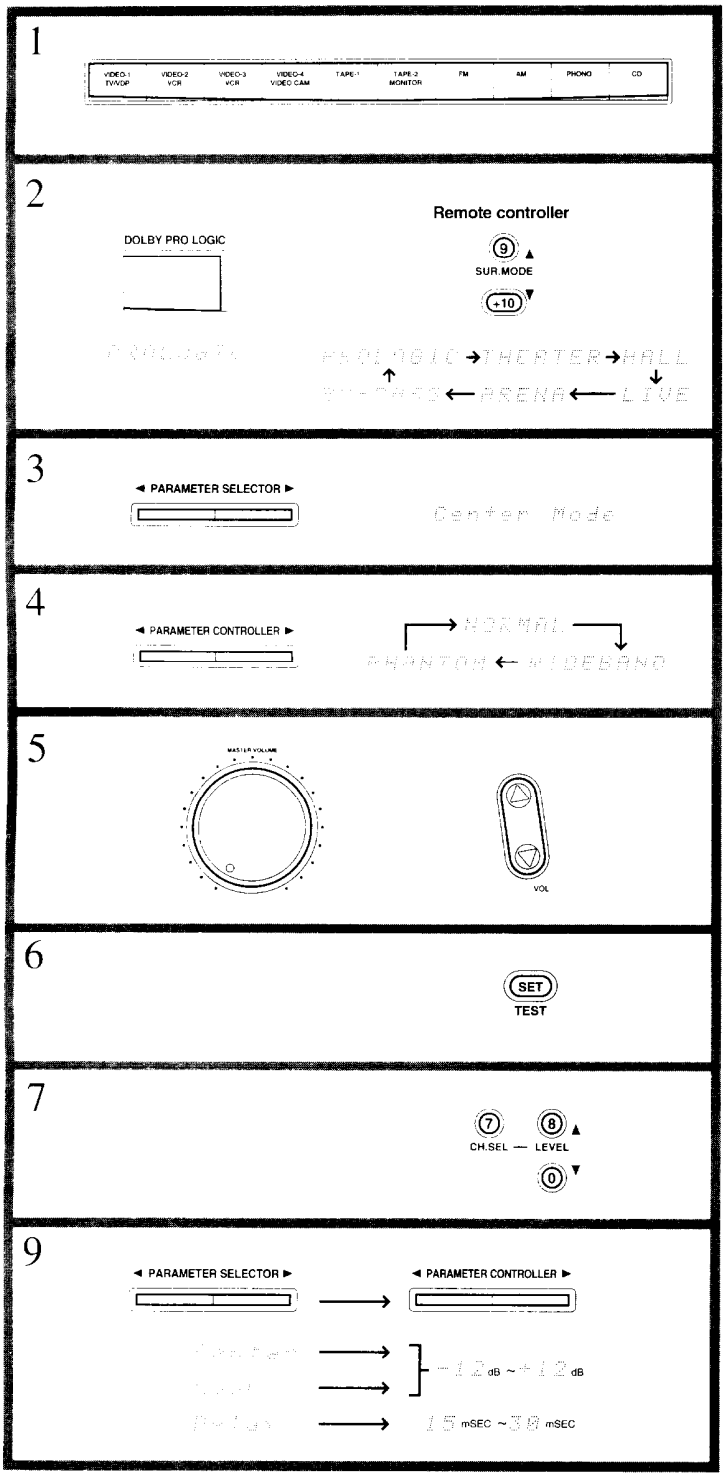
   Adjust the level of the rear speaker.
   Move the cursor to Rear Level using ▲ or ▼ cursor button and press the ◄ or ► cursor button to adjust the level.
5. **Adjust the delay time (See page 39)**
   Move the cursor to Delay Time using ▲ or ▼ cursor button and press the ◄ or ► cursor button to adjust the delay time.

- The parameters differ depending on which surround mode is selected in step 3.
- See pages 36 – 41 for more details on setting each surround parameter.

Setting the surround parameters







Refer to page 33 for basic operation of surround play.
Refer to pages 37 - 41 and the explanation of each parameter when using on screen to set the parameters.
If you need to initialize the set value for each parameter, carry out the initialization procedure. (See page 39.)
The surround mode parameters can be set and stored for each source.

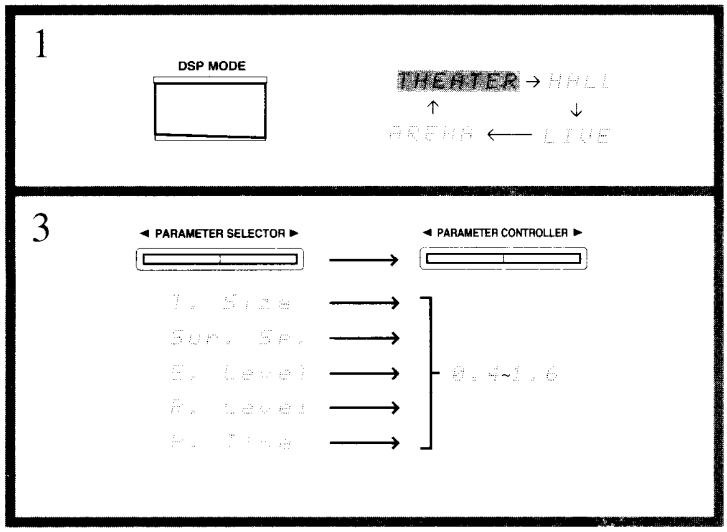
Setting the Dolby Pro Logic surround parameters

When using video cassette tapes or video discs with the Dolby Surround trademark, you can achieve the same kind of sound in your room that can be experienced in a movie theater.

1. **Select a source encoded with Dolby surround.**
2. **Press the DOLBY PRO LOGIC button.**
   Using remote controller, press the SUR. MODE ▲ or ▼ button to select the Dolby Pro Logic surround mode.
3. **Use the PARAMETER SELECTOR ◄ or ► button to select Center Mode.**
   Refer to the Explanation 1 on the page 37 for details.
4. **Use the PARAMETER CONTROLLER ◄ or ► button to select either NORMAL, WIDEBAND or PHANTOM.**
5. **Use the MASTER VOLUME to set the volume to the desired listening position.**
6. **Press the TEST button on the remote controller to turn the test tone on.**
   Refer to the Explanation 2 on the page 38 for details.
7. **Adjust the center level, and rear level.**
   Use the CH. SEL and LEVEL ▲ or ▼ buttons on the remote controller to adjust the levels.
   Refer to the Explanation 2 on the page 38 for details.
8. **Press the TEST button again Turn off the test tone.**
9. **Adjust the delay time.**
   Refer to the Explanation 3 on the page 39 for details.

- When using the remote controller, set the Device select switch on it to AMP.

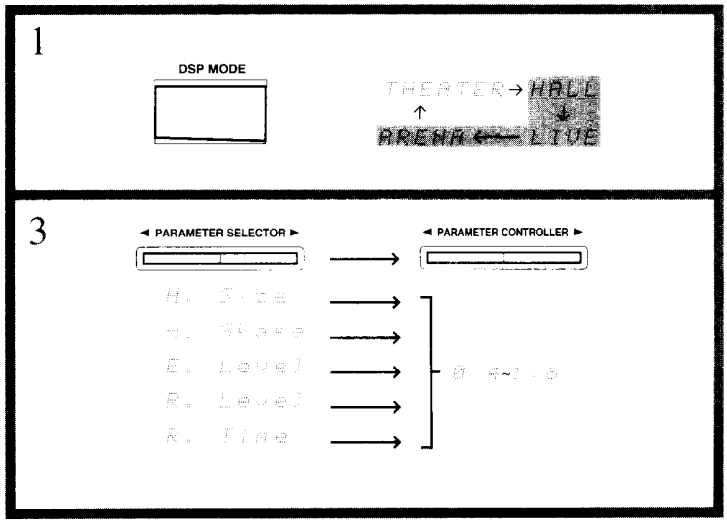
Setting the surround parameters



Setting the Theater surround parameters

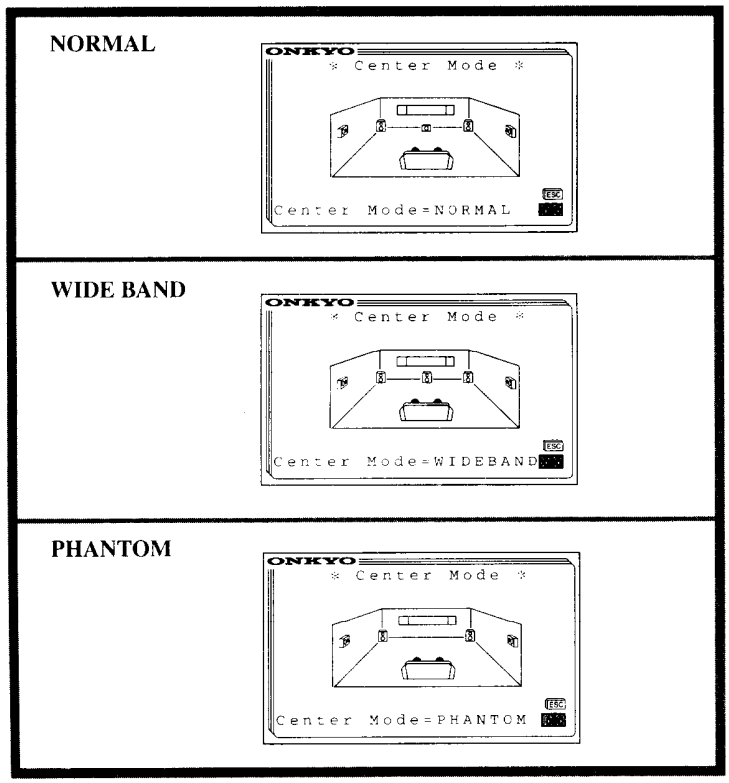
You can achieve the same kind of sound in your room that you experience in a movie theater by adding a DSP sound field effect. (Refer to page 5 for details)

1. **Use the DSP MODE button to select THEATER.**
   - Each time the DSP button is pressed the mode changes.
   - If the center mode was selected while in another surround mode, there is no need to change it.
2. **Perform Steps 3 through 9 of the procedure entitled "Setting the Dolby Pro Logic surround parameters" on page 36.**
3. **Select Theater size.**
   Refer to the Explanation 5 on the page 40 for details.
   Adjust the Surround speakers.
   Refer to the Explanation 6 on the page 40 for details.
   Adjust the effect level, Reverb level and Reverb time.
   Refer to the Explanation 7 on the page 41 for details.



Setting the Hall, Live and Arena surround parameters

1. **Use the DSP MODE button to select either HALL, LIVE or ARENA.**
   - If the center mode was selected while in another surround mode, there is no need to change it.
2. **Perform Steps 3, 4, 5 and 7 of the procedure entitled "Setting the Dolby Pro Logic surround parameters." on page 36.**
   - The test tone function is not provided with these surround mode.
3. **Select Hall size.**
   Refer to the Explanation 5 on the page 40 for details.
   Select Hall shape.
   Refer to the Explanation 8 on the page 41 for details.
   Adjust the effect level, Reverb level and Reverb time.
   Refer to the Explanation 7 on the page 41 for details.



Explanation 4: Center mode

Because of the center speaker plays such an important part in Dolby Pro Logic Surround, three different modes are available for it, depending on its size.

On-screen

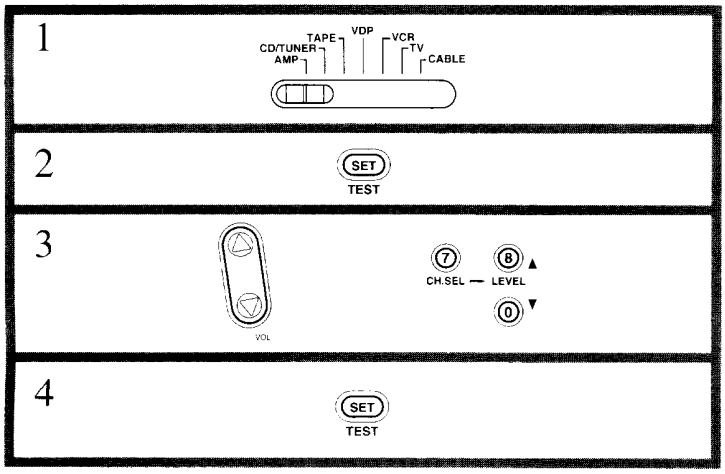
Move the cursor to Center Mode using ▲ or ▼ cursor button and press the ◄ or ► cursor button to select center mode. (See page 35)

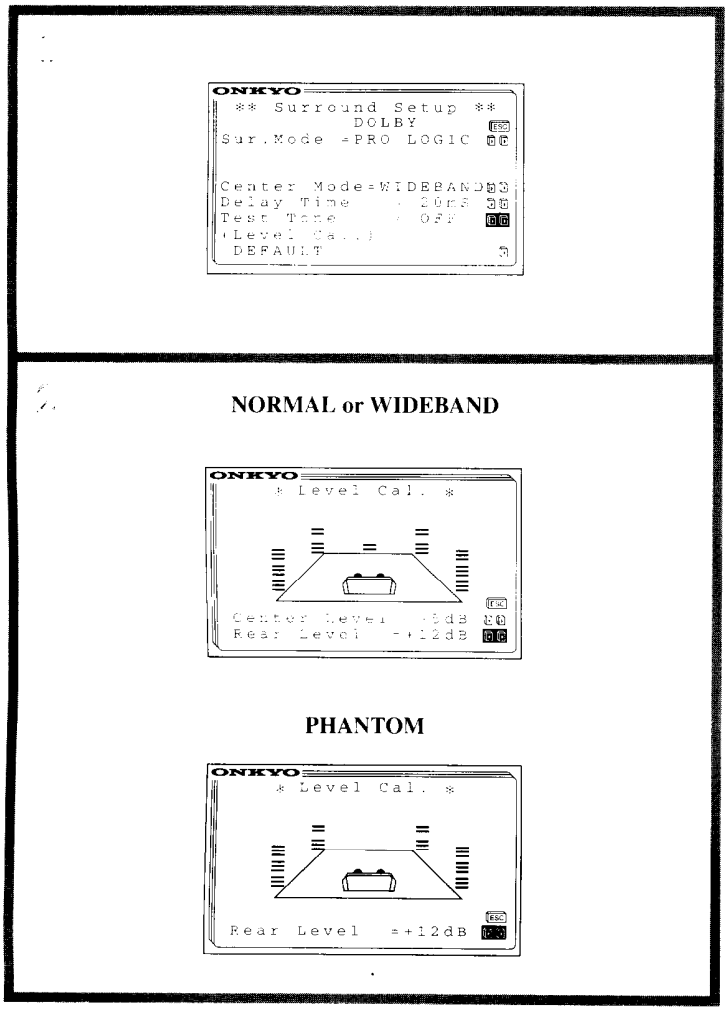
- When you have finished center mode setting, move the cursor to ESC using the ▲ or ▼ cursor button and press the ENTER button.
- The center mode cannot be set independently for each surround mode, so the settings you make hear will affect every surround mode.

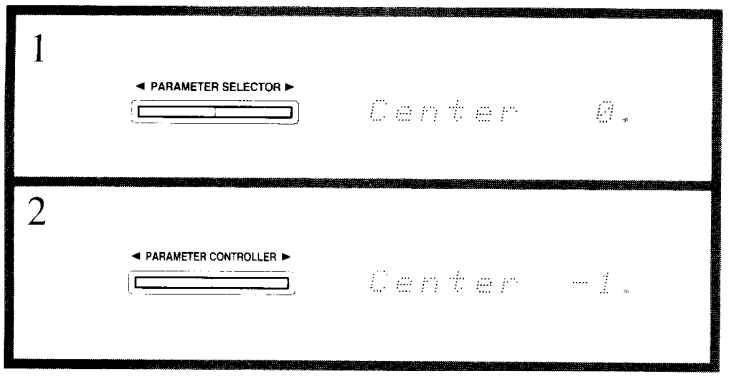
NORMAL: Use this setting when using a center speaker smaller than the L and R stereo speakers. The center speaker will not be sent frequencies below 100Hz, and these will be split between the front L and R speakers.

WIDEBAND: Use this setting when using a center speaker similar to the L and R stereo speakers in size and power. The center speaker will receive the full frequency range.

PHANTOM: Use this setting when a center speaker is not present. The sound that would have been sent to the center speaker will not be split between the front L and R speakers, producing a similar result.







Explanation 2: Adjusting the rear and center level using the test tone function

No matter what kind of program sources are used, the front, rear and center speakers should be set to the same volume level for the surround effect to work effectively. The test tone is provided to help make this adjustment. Pink noise is produced by each speaker in turn so you can match the volume level of the front, center and rear speakers. As the relative volumes of the speakers depend on your listening position, we recommended you make this adjustment with the remote control from the position you usually listen from.

Use remote controller

1. **Set the Device select switch to AMP.**
2. **Press the TEST button.**
   This test tone (pink noise) is produced by each speaker in turn so you can match the volume levels of the Front, Center and Rear speakers. The test tone cycling sequence depends on the cneter mode settings, as follows.

   If CENTER MODE is NORMAL or WIDEBAND:

   → Front Left → Center → Front Right → Rear (Surround) →

   If CENTER MODE is PHONTOM:

   → Front Left ⟶ Front Right ⟶ Rear (Surround) →
3. **From your listening position, adjust the relative volume of the test tone from the different speakers.**
   Set the front, rear and center speakers to the same volume.
4. **Press the TEST button once more to turn off the test tone sequence.**
   The test tone will automatically turn itself off after 2 minutes.

On-screen

Move the cursor to Test Tone using ▲ or ▼ cursor button and press the ◄ or ► cursor button to choose the type of test tone.

ON.....A test tone is sent to all speakers in turn.
OFF ..... The test tone is not turned on.

Move the cursor to Center Level using ▲ or ▼ cursor button and use the ◄ and ► cursor buttons to adjust the center level.

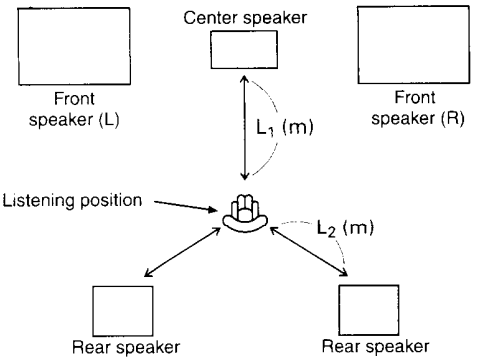
Move the cursor to Rear Level using ▲ or ▼ cursor button and use the ◄ and ► cursor buttons to adjust the rear level.

To return to the Surround Setup screen. Move the cursor to ESC using ▲ or ▼ cursor button and press the ENTER button.

Main unit (adjust the center and rear level)

1. **Use the PARAMETER SELECTOR ◄ or ► button to select items.**
   The selected item is displayed, the letters scroll and the current value will be displayed 5 seconds.
2. **Press the PARAMETER CONTROLLER ◄ or ► button to adjust the level.**

- The adjustment can be made from –12, ...0, +1, +2, ...up to +12 dB (maximum).
- When the center mode is set to PHANTOM, you cannot adjust the center level here.
- When the test tone is on, if you press any button on the main unit or the remote control other than MASTER VOLUME, CENTER LEVEL, REAR LEVEL, SPEAKERS MAIN, DIMMER or MUTING, the test tone will turn off.

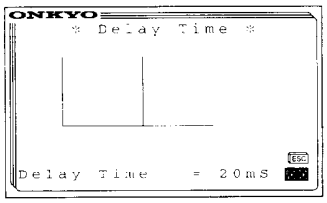


To calculate optimum setting for your room, measure the distances L1 and L2 as shown above, then work out the delay times from the following table.

L1-L2=1:15 to 23 msec	L1-L2=4:22 to 30 msec
L1-L2=2:16 to 26 msec	L1-L2=5:25 to 30 msec
L1-L2=3:19 to 29 msec	

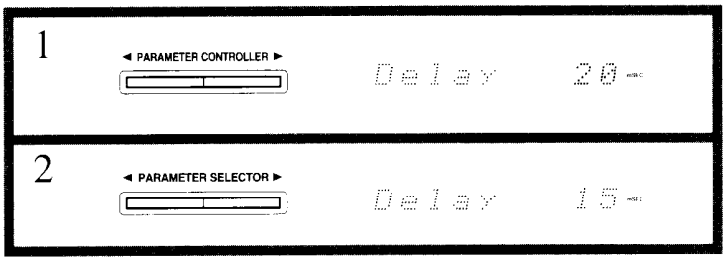
Explanation 3: Delay time

By adjusting the delay time, and carefully adjusting master volume level, center volume level, rear volume level, the apparent acoustic size of your listening room can be enlarged or reduced. Adjustable delay time allows you to tailor the accoustic size of your listening enviroment to the sonic characteristics of the audio program, because a short delay in the audio signal coming from the rear speakers gives the impression that it had to travel a longer distance to reach the listener, hence a larger room or hall. Dolby Surround delay time is specified at 20 msec. It is recommended that initial Dolby Surround delay be set at 20 msec, but adjustment from 15 to 30 msec is possible.



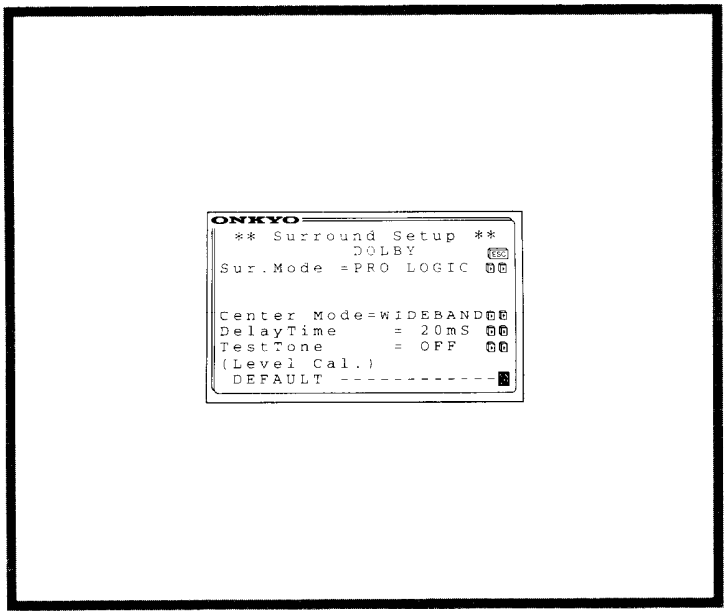
On-screen

1. **Move the cursor to Delay Time using ▲ or ▼ cursor button and use the ◄ or ► cursor button to adjust the delay time.**
2. **To return to the Surround Setup screen. Move the cursor to ESC using ▲ or ▼ cursor button and press the ENTER button.**



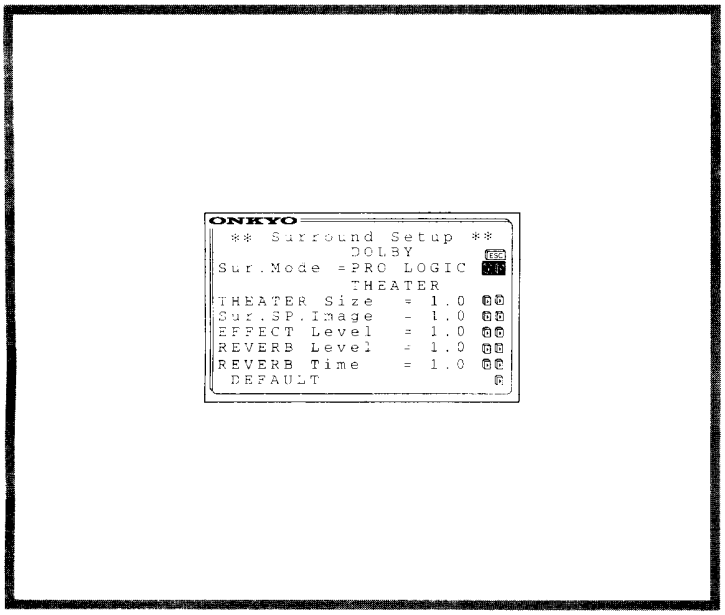
Main unit

1. **Use the PARAMETER SELECTOR ◄ or ► button to select Delay time.**
2. **Use the PARAMETER CONTROLLER ◄ or ► button to adjust the delay time.**
   The adjustment can be made from 15 -16 ------29 - 30 msec.



Explanation 4: Initialization

1. **Move the cursor to DEFAULT using ▲ *or* ▼ *cursor* button.**
2. **Press the ► cursor button.**
   Yes and No is displayed.
3. **Press the ◄ cursor button to initialize the system.**
   When initialization is carried out, each level is initialized as follows.
   - Center level = 0 dB
   - Rear level = 0 dB
   - Delay Time = 20 msec
   - Theater Size = 1.0
   - Sur. SP. Image= 1.0
   - Reverb level = 1.0
   - Reverb Time = 1.0
   - Effect Level = 1.0
   - Hall Size = 1.0
   - Hall Shape = 1.0.
   - Center Mode = NORMAL
   - Test Tone = OFF



Explanation 5: Theater size, Hall size

Theater mode simulates the atmosphere of a small or a large sized movie theater. Seven theater size can be selected, from 0.4 to 1.6. This figure gives the ratio of breadth to length.

On-screen

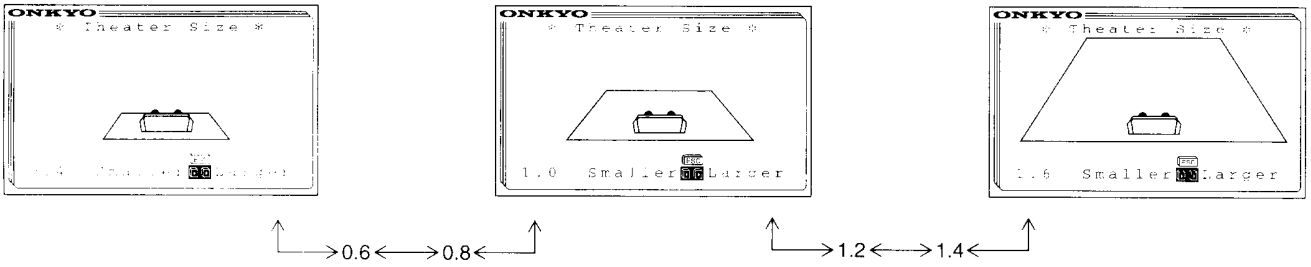
Move the cursor to Sur. Mode using ▲ or ▼ cursor button and press ◄ or ► cursor button to select DOLBY PRO LOGIC THEATER.

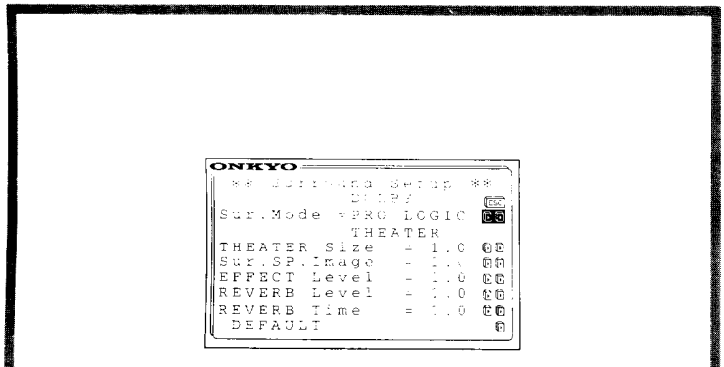
Move the cursor to THEATER Size using ▲ or ▼ cursor button and use the ◄ or ► cursor button to alter theater size.

Main unit

1. **Use the PARAMETER SELECTOR ◄ or ► button to select Theater size.**
2. **Use the PARAMETER CONTROLLER ◄ or ►button to alter the theater size.**

- When using the Hall, Live and Arena surround modes, set the Hall size in the same manner used to set the Theater size.





Explanation 6: Surround speakers

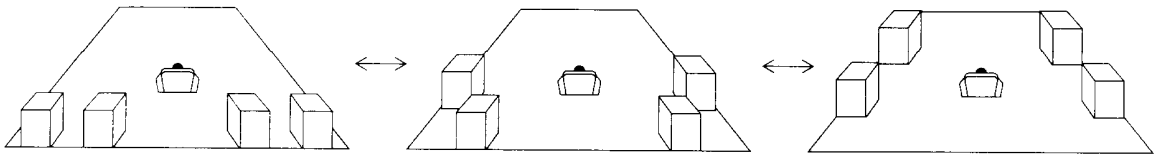
Simulate as if there were four Surround speakers. 7 patterns from 0.4 to 1.6 can be selected. The surround speakers mentioned here are refered to as Surround speakers in the movie theater, not the speakers connected to the main unit. The effects may differ according to the type of left and right surround rear speakers used and their positions.

On screen

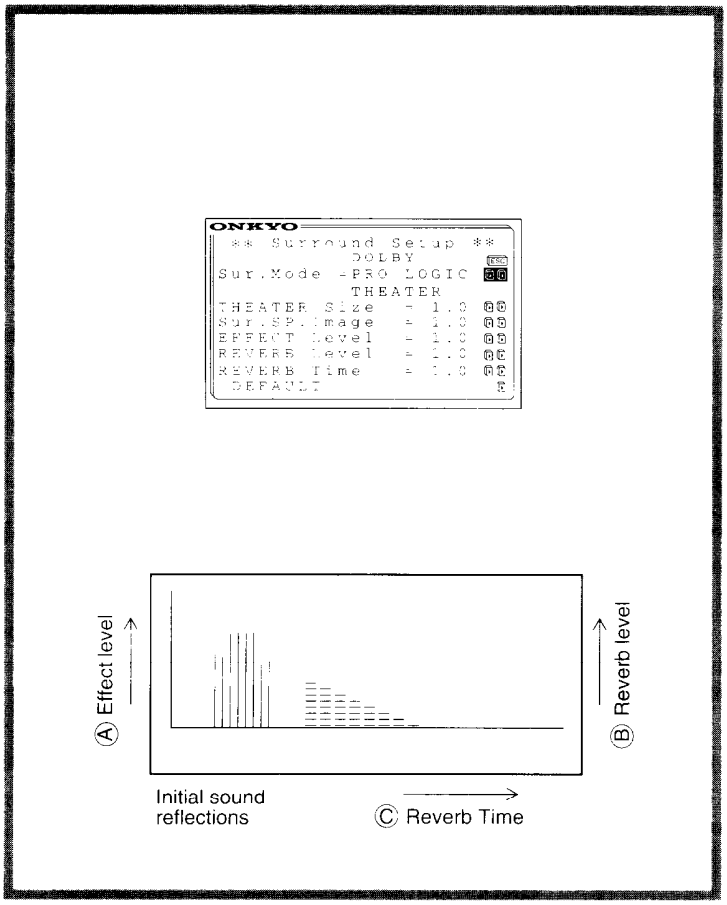
Move the cursor on Sur. SP. Image using ▲ or ▼ cursor button and use the ◄ and ► cursor buttons to select surround speakers.

Main unit

1. **Use the PARAMETER SELECTOR ◄ or ► button to select Surround speaker.**
2. **Select the type of surround speakers using the PARAMETER CONTROLLER ◄ or ► button.**



Sur. Speakers = 0.4 Sur. Speakers = 1.0 Sur. Speakers = 1.6



Explanation 7: Effect level, Reverb level and Reverb time

By adjusting the level of the initial reflections and reverberation in sound from a recording, it is possible to create the illusion of actually being in a concert hall or movie theater without leaving your living room. By adjusting the effect level, reverb level and reverb time, it is possible to recreate the sonic environment of a concert hall or movie theater.
For each parameter, you can set one of the seven levels between 0.4 and 1.6.

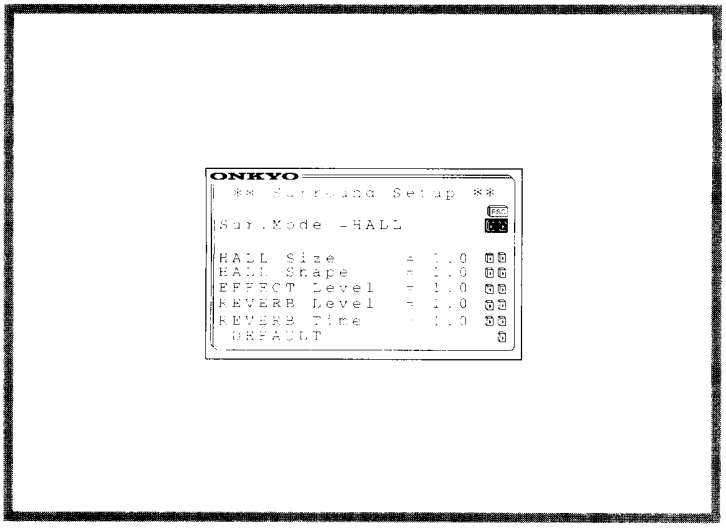
On screen

Move the cursor to EFFECT Level (or REVERB Level, or REVERB Time) using ▲ or ▼ cursor button and use the ◄ or ► cursor button to adjust the level.

Main unit

1. **Use the PARAMETER SELECTOR ◄ or ► button to select Effect Level (or Reverb Level or Reverb Time).**
2. **Use the PARAMETER CONTROLLER ◄ or ► button to adjust the level.**

A. Effect level: This parameter adjust the initial reflection level.
B. Reverb level: This parameter adjust the level of only the reverb (not the initial reflections). Raising the level makes the mountain higher. (Refer to the illustrastion.)
C. Reverb Time: This parameter adjust the time taken for the reverberation to decay completely. Lenghtening the reverb time widens the base of the mountain.



Explanation 8: Hall shape

Simulates the shape of the concert hall. Seven Hall shape can be selected, from 0.4 to 1.6. 0.4 to 0.8 simulates rectangular shapes, 1.0 simulates a square shape and 1.2 to 1.6 simulate *oblong* shapes. The number is the ratio of hall breadth to length.

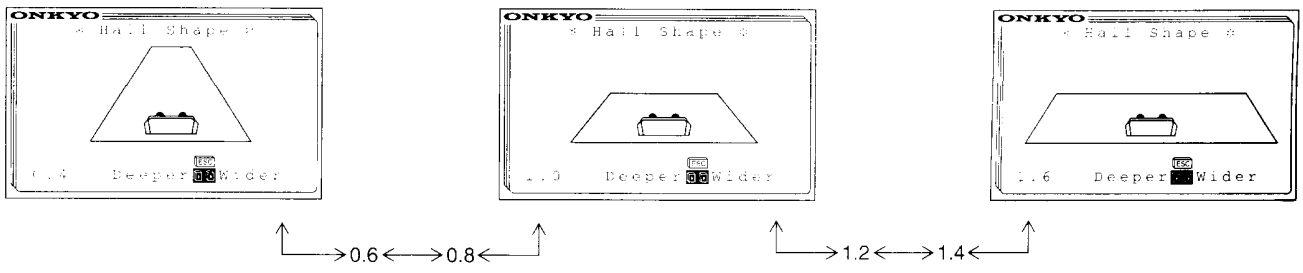
On screen

Move the cursor to Sur. Mode using ▲ or ▼ cursor button and use the ◄ or ► cursor button to select *HALL*.

Move the cursor on HALL Shape using ▲ or ▼ cursor button and use the ◄ and ► cursor buttons to select the value.

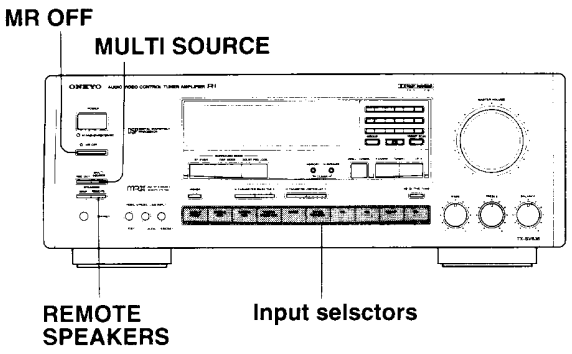
Main unit

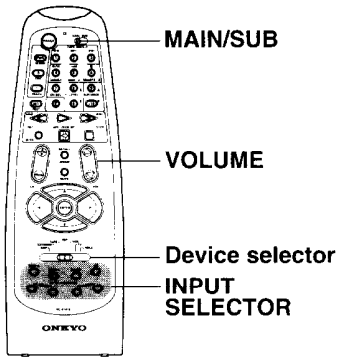
1. **Use the PARAMETER SELECTOR ◄ or ► button to select Hall Shape.**
2. **Use the PARAMETER CONTROLLER ◄ or ► button to alter the hall shape.**

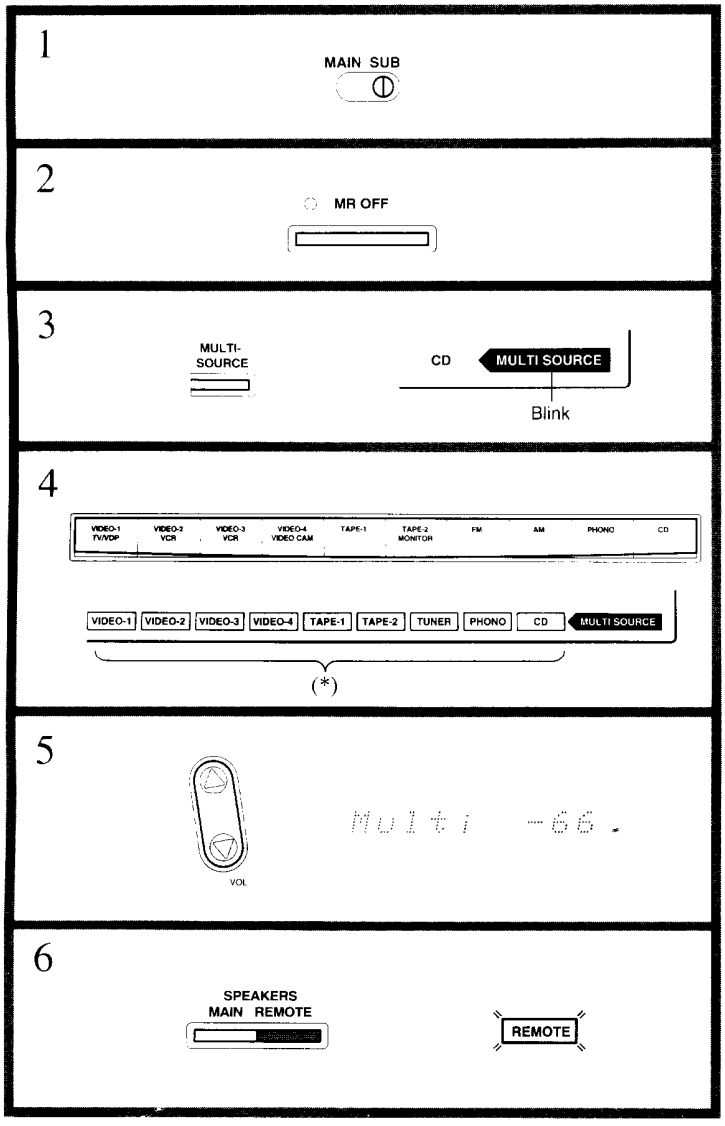


Listening in another room

The TX-SV636 allows you to listen to a desired playback in another room (sub room) while listening to the playback of a device located in the main room. To do this, connect the speakers in another room to the FRONT SPEAKERS REMOTE terminals on the TX-SV636.
Remote control from another room can be done by employing the Multiple Room Remote System (MR). Refer to the connections for Multiple Room Remote Control. Be sure to operate the remote control pointing at the Remote Sensor. (See pages 18 and 19)
The following steps (except step 2) can be performed using the remote controller. It is recommended that the adjustments described below be done in the main room in advance, since you cannot operate the remote control in another room while watching the display of the TX-SV636. Be sure to perform the following operations before you start recording.







Listening to devices connected to the TX-SV636 in another room

1. **Set the MAIN/SUB selector switch to the SUB position when using the remote controller in the another room.**
2. **Turn the MR OFF button off.**
   MR OFF indicator is turned off.
3. **Press the MULTI-SOURCE button.**
4. **While the MULTI SOURCE indicator is flashing, use the input selector button to select the desired source.**
   The chosen source will be displayed in a red box. (*)

- If the tuner is selected with MULTI SOURCE and the input selector is set to something other than TUNER, the tuners frequency and group displays will be shown for 3 seconds.
- When changing the source, be sure to press the MULTI-SOURCE button before pressing the input selector button. Pressing the input selector button without first pressing the MULTI-SOURCE button will change the source in the main room.
- The remote controller can be used to combine steps 2 and 3 by first setting the MAIN/SUB selector switch to SUB and pressing the AUDIO ◄ /► or VIDEO ◄/► button.

5. **Adjust the level using the VOL or button on the remote controller.**

- Multi and the level will be indicated on the display. It is recommended that the level be set lower in advance in the main room (about – 66 dB).
- Note that before adjusting the level using the VOL or button, set the MAIN/SUB selector switch on the remote controller to the SUB position and set the Device select switch to the position other than TV, CABLE. If the position is set to MAIN, the MASTER VOLUME affects the speaker volume in the main room, not the sub room.

6. **Press the SPEAKERS REMOTE button to illuminate the REMOTE indicator.**

- Press the MAIN button to turn off the MAIN indicator if you are not listening to the sound in the main room.

Listening in another room

MR OFF button and indicator

Use this button for tape recording or for the Surround sound modes. It is used to disable control of the MR system via the remote controller in another room. Pressing this button will illuminate the indicator, and control from another room will be disabled. Pressing the button again will turn the indicator off, and control from the other room will be enabled.

NOTES:

- The Surround becomes BY-PASS when the multi-source is used.
- The source indicated by the Input Selector will be output from the TAPE-1 and 2, and VIDEO-2 and 3 REC OUT terminals.
- Pressing the REC OUT button will turn off the Remote speakers.
- If the multi source is selected, MR OFF will automatically be deactivated.
- If the multi source is selected for REC OUT, or the SURROUND MODE button is pressed, MR OFF will automatically be activated.

Using the remote controller

You can use the remote controller supplied with TX-SV636 to operate the source devices selected for the multi-source if they are an Onkyo's CD or cassette deck bearing the RI mark.

If you wish to use a second remote controller for the sub room. You can use an optional remote controller RC-MR 1H.

You need to install the Remote Sensor and the Remote Emitter to control non-Onkyo devices from another room (sub room). Operate the remote controller included with the device by pointing it toward the remote sensor installed in the sub room.

If a problem occurs, carry out the same countermeasures as for the unit's Front panel controls to find out whether the problem is caused by the remote controller.

If the front panel controls function correctly, check the batteries in the remote controller before assuming that there is a controller malfunction.

NOTES:

- If the remote control is operated from another room, the input selector source may be changed, or recording may be interrupted.
- To disable remote control from another room, press the MR OFF button. The MR indicator lights up.
- Some non-Onkyo remote controllers cannot be used.

If you cannot operate this unit using the remote controller in another room, do the following:

- Try the controls on the main unit to make sure that it is working correctly. Then try using the remote controller to make sure that it is working correctly. If it isn't, refer to page 10.
- If you are using a component that doesn't support the Onkyo RI system, be sure to point the emitter of the remote control toward the component.
- Make sure that the components are connected correctly.
- Make sure that the MR OFF button on the TX-SV636 is off. The MR OFF indicator should be off.

Troubleshooting guide

If a problem occurs, first operate the unit using the Front panel controls to confirm that it is not due to a malfunction (or worn out batteries) of the remote control.

Trouble	Cause	Remedy
No power.	• Power cord is disconnected. • There is external noise in the computer circuits of the TX-SV636. • AC fuse blown.	• Connect power cord. • Turn the power button off and then on again or remove the AC plug from the outlet. • Contact your Onkyo Service Center.
Power but no sound.	• TAPE-2 MONITOR switch is on. • Audio muting switch is on. • Bad/incorrect connections. • Amplifier protection circuitry has been activated. ('PROTECT' will be displayed.)	• Switch to off. • MUTE switch to off with the remote control. • Check input leads, speaker leads, pin plugs, etc. • Contact your Onkyo Service Center.
No sound from the Center speaker, or very minimal sound.	• The speaker cables are connected to the DUAL terminals even though there is only 1 Center speaker. • Speaker cord is removed. • Surround mode is set to HALL, LIVE, ARENA and BY-PASS. • Center level is set to the minimum. • Center Mode is set to PHANTOM.	• Connect the speaker cables to the SINGLE terminals. • Check the connection between the amplifier and the speaker. • When HALL, LIVE or ARENA is selected for the Surround mode, only effect sound will be output from the Center speaker. The sound level will be less compared to the sound level when the DOLBY PRO LOGIC or THEATER is selected. • When the Surround mode is set to BY-PASS, no sound will output from the Center speaker. • Set the Center level to the appropriate volume . • Set Center Mode to NORMAL or WIDEBAND.
Hum, low-frequency noise.	• Poor or no input ground. • Poor or no phono motor ground. • The placement of the input/output cables on the Rear panel is incorrect.	• Check outer conductor of input plugs. • Check for proper ground connection. • Adjust the placement of the cable to reduce hum.
Howling when the volume is turned up.	• Turntable and speakers are too close together.	• Move them farther apart.
Rough or scratchy sound. High range is not clear.	• Stylus of pick-up is worn. • Stylus tip is dirty. • Treble control too high.	• Replace. • Clean. • Turn treble control down.
AM stations cannot be received.	• AM loop antenna is not attached.	• Connect the included AM loop antenna to the AM antenna terminals.
Buzzing noise on AM (particularly conspicuous at night or with weak stations).	• Noise from electrical apparatus such as fluorescent lamp.	• Move the AM loop antenna to different position. • Set up an outdoor AM antenna.
High-pitched noise or buzzing noise on AM.	• Noise from TV set.	• Place the AM loop antenna as far as possible from the TV. • Move unit away from TV set.
Crackling noise on AM, FM.	• Noise caused by turning fluorescent lamp on and off. • Noise from automobile ignition.	• Move antenna as far as possible from the fluorescent lamp. • Install an FM outdoor antenna as far as possible from the road. • Change the position or direction of the outdoor antenna.
FM TUNED and STEREO indicators light but sound is distorted and stereo separation is bad.	• Station is too strong. • Multiple reflection of the radio waves because of tall buildings or mountains.	• Change to T-shaped antenna. • Use antenna which has better directivity and select a point where the distortion is least.
FM TUNED indicators and STEREO indicator flicker and hiss is heard on FM.	• Station is too weak. • Stereo FM broadcasts cover only about half the distance of an ordinary broadcast.	• Install an outdoor FM antenna. • Change the position or direction of the outdoor antenna.
No station is recalled when a preset key is pressed.	• The power cord has been unplugged for a long time.	• The memory contents are lost. Store all stations again.
The Multiple Room Remote System does not operate.	• Connection is wrong. • The MR OFF button on the TX-SV636 is engaged. (The MR OFF indicator will be lit.)	• Check the connection again. • Press the MR OFF button. (The MR OFF indicator will be turned off.)
Front panel controls function but remote control does not.	• No batteries in remote control. • Batteries have worn out.	• Insert batteries. • Replace batteries.
Also refer to the respective instruction manuals of the Video Disc Player, video cassette recorder, TV monitor, etc., being used.		

Troubleshooting guide

NOTE:

The tuning steps by which the tuned frequency changes on each band have been set at the factory to the proper value for the country where each unit is to be sold. If you use the unit in a country where a different tuning step is required or if the broadcast frequencies in your country change so that you can not tune in radio stations precisely, contact your authorized Onkyo Service Center.

This device employs a microcomputer to perform various functions and operations. If interference generated by an external power supply, radio waves, or other electrical souce results in an accident which causes the specified operations and functions to operate abnormally. To perform a reset, please follow the procedure below.

1. Press and hold down the VIDEO-1 button, then press the SPEAKERS MAIN button.
2. After "clear" is displayed, the preset memory and parameters stored in the memory, such as surround, are initialized and will return to the factory settings.

Problem with the RC-P101S/P201S remote controller

If the remote controller does not operate.	• First, try operations using the buttons of the main unit for each function. If operation is not possible, the fault is in the main unit and not the remote controller. • If the batteries are weak, replace the batteries.
The codes programed by the button of RC-P101S/P201S have been "forgotten".	• If the batteries are taken out of the unit for more than one hour, programed codes will be lost. In this case, please memorize the codes once again.
Some or all buttons on the video device do not function.	• Depending on the video device manufacturer, some buttons on the remote controller may not work. In this case, use the remote controller that came with the video device.

Questions	Answers
Q: How do I get my remote speaker to turn on?	A: Hit multi-source button, select source (CD, FM) then hit remote speaker button. On hand held remote, hit VOLUME ▲/▼key to send volume to remote speakers. This is independent from the main volume.
Q: I cannot get On-screen graphics on my TV/Monitor.	A: Make sure you have a single RCA video cable running from the monitor out on the back of the Onkyo going to the EXT. 1 or video-1 input of your TV/Monitor. You must make the input selection at the TV/Monitor. (Many customer assume that the Onkyo will switch the TV/Monitor mode automatically.)
Q: How do I get just my TV sound through my stereo?	A: On the back of your TV/Monitor you should see AUDIO OUT left and right RCA jacks. Run a standard RCA cable from those output to any line level input on the Onkyo. Do not use the Phono input.
Q: Why is there no sound coming from my unit? It worked fine yesterday and there is some music faintly in the background.	A: Check to see that the TAPE-2 MONITOR button is not engaged.

Specifications

AMPLIFIER SECTION

Power Output	
Stereo mode	
Front Main L/R channels:	100 watts per channel, min. RMS at 8 ohms, both channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion.
Continuous Power output:	2 × 120 watts at 8ohms (DIN)
Surround mode and Multi source mode	
Front Main L/R and Center channels:	85 W + 85 W + 85 W (1 kHz, 0.08%, 8 ohms)
Rear channels (Rear only driven):	30 W + 30 W (1 kHz, 0.8 %, 8 ohms)
Remote channels:	85 W + 85 W (1 kHz, 0.1%, 8 ohms)
Total Harmonic Distortion:	0.08% at rated power (Front)
IM Distortion:	0.08% at rated power (Front)
Damping Factor:	60 at 8 ohms (Front)
Input Sensitivity and Impedance	
Phono:	2.5 mV/50 kohms
CD/Tape Play:	150 mV/50 kohms
Output level and impedance	
Tape Rec:	150 mV/2.2 kohms
Pre out:	1 V/ 2.2 kohms
Phono Overload:	120 mV RMS at 1 kHz, 0.5% T.H.D.
Frequency Response:	20 Hz to 30 kHz, ±1 dB
RIAA Deviation:	20 Hz to 20 kHz, ±0.8 dB
Tone Control	
Bass:	±10 dB at 100 Hz
Treble:	±10 dB at 10 kHz
Signal to Noise Ratio	
Phono:	80 dB (IHF A, 5 mV input)
CD/Tape:	100 dB (IHF A)
Muting:	–∞ dB

VIDEO SECTION

Signal sensitivity and impedance:	1 Vp-p, 75 ohms (VDP/VCR input, output)

TUNER SECTION

FM

Tuning Range:	87.5 — 108.0 MHz (50 kHz steps)
Usable Sensitivity	
Mono:	11.2 dBf, 1.0 µV (75 ohms), IHF 0.9 µV (26 dB S/N, 40 kHz Div.) 75 ohms, DIN
Stereo:	17.2 dBf, 2.0 µV (75 ohms), IHF 23 µV (46 dB S/N, 40kHz Div.) 75 ohms, DIN
50dB Quieting Sensitivity	
Mono:	17.2 dBf, 2.0 µV (75 ohms)
Stereo:	37.2 dBf, 20 µV (75 ohms)
Capture Ratio:	1.5 dB
Image Rejection Ratio	
U.S.A. & Canadian models:	40 dB
Other area models:	85 dB
IF Rejection Ratio:	90 dB
Signal-to-Noise Ratio	
Mono:	73 dB
Stereo:	67 dB
Alternate Channel Attenuation:	55 dB
AM Suppression Ratio:	50 dB
Total Harmonic Distortion	
Mono:	0.15%
Stereo:	0.25%
Frequency Response:	30 Hz — 15 kHz, ±1.5 dB
Stereo Separation:	45 dB at 1 kHz 30 dB at 100 Hz — 10 kHz

AM

Tuning Range	
U.S.A. & Canadian models:	530 — 1,710 kHz (10 kHz steps)
European & Australian models:	522 — 1,611 kHz (9 kHz steps)
Worldwide models:	531 — 1,602 kHz (9 kHz steps), 530 — 1,710 kHz (10 kHz steps)
Usable Sensitivity:	30 µV
Image Rejection Ratio:	40 dB
IF Rejection Ratio:	40 dB
Signal-to-Noise Ratio:	40 dB
Total Harmonic Distortion:	0.7%

GENERAL

Power Supply:	
U.S.A. & Canadian models:	AC 120 V, 60 Hz
European & Australian models:	AC 230 V, 50 Hz
Worldwide models:	AC 220–230 V and 120 V switchable, 50/60 Hz
Power Consumption	
U.S.A & Canadian models:	4.3 A
Other area models:	410 W
Dimensions (W × H × D):	455 × 170 × 389 mm 17-15/16" × 6-11/16" × 15-5/16"
Weight:	13.0 kg (28.7 lbs)

REMOTE CONTROLLER

U.S.A. & Canadian models:	RC-P101S
Other area models:	RC-P201S
Transmitter:	Infrared
Signal range:	Approx. 5 meters, 16 ft.
Power supply:	Two "AA" batteries (1.5V × 2)

Specifications and features are subject to change without notice.